On the independence ratio of distance graphs
(Data)

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In the tables below, black fractions are exact values for $\overline{\alpha}(S)$ while red fractions are only lower bounds.

The values in these tables were computed using the `distance_cliquer` software, with a limit of one hour per generator set. These experiments were run in parallel on the Open Science Grid, taking about one real-time day to complete, in total.

In the plots at the end, the blue dots are lower bounds on $\overline{\alpha}(S)$ while the green dots are upper bounds on $\overline{\alpha}(S)$ and the red lines are conjectured fractions, depending on the residue class of k modulo some number.

1 Three Generators

k \ i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1/4	1/3	1/3	2/7	1/3	1/3	3/10	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3
2	2/7		1/3		4/11		5/13		2/5		7/17		8/19		3/7		10/23		11/25	
3	1/3	2/5	3/8	1/3	2/5	4/11	2/5	5/13	5/14	2/5	3/8	2/5	7/18	7/19	2/5	8/21	2/5	9/23	3/8	2/5
4	2/7		1/3		1/3		6/17		7/19		8/21		9/23		2/5		11/27		12/29	
5	4/13	3/7	2/5	3/8	5/12	1/3	3/7	2/5	3/7	7/17	9/23	8/19	2/5	3/7	9/22	3/7	5/12	2/5	11/26	11/27
6	1/3		4/11		3/8		1/3		6/17		7/19		3/8		11/29		12/31		13/33	
7	3/10	4/9	7/19	2/5	3/7	4/11	7/16	1/3	4/9	5/13	4/9	3/7	12/29	10/23	12/31	11/25	13/33	4/9	3/7	4/9
8	6/19		5/13		2/5		2/5		1/3		8/21		9/23		2/5		2/5		11/29	
9	1/3	5/11	5/14	5/12	2/5	5/13	4/9	4/11	9/20	1/3	5/11	3/8	5/11	7/17	3/7	4/9	15/37	13/29	5/13	14/31
10	4/13		2/5		7/17		5/12		12/31		1/3		2/5		11/27		12/29		5/12	
11	8/25	6/13	3/8	3/7	5/13	2/5	13/31	8/21	5/11	5/13	11/24	1/3	6/13	10/27	6/13	2/5	18/41	3/7	18/43	5/11
12	1/3		11/29		8/19		3/7		3/7		14/37		1/3		16/41		13/31		14/33	
13	5/16	7/15	7/18	7/16	2/5	7/17	2/5	9/23	16/37	2/5	6/13	2/5	13/28	1/3	7/15	12/31	7/15	13/33	21/47	5/12
14	10/31		7/19		3/7		10/23		7/16		17/41		3/8		1/3		18/47		3/7	
15	1/3	8/17	2/5	4/9	9/22	8/19	7/17	2/5	17/41	11/27	19/43	7/17	7/15	9/23	15/32	1/3	8/17	2/5	8/17	15/37
16	6/19		8/21		16/39		11/25		4/9		4/9		19/47		7/18		1/3		14/37	
17	12/37	9/19	5/13	9/20	5/12	3/7	8/19	9/22	2/5	12/29	20/47	13/31	22/49	8/19	8/17	5/13	17/36	1/3	9/19	11/28
18	1/3		9/23		2/5		4/9		13/29		9/20		22/51		2/5		2/5		1/3	
19	7/22	10/21	3/8	5/11	11/26	10/23	3/7	5/12	3/7	2/5	7/17	14/33	23/53	3/7	5/11	3/7	9/19	8/21	19/40	1/3
20	14/43		2/5		11/27		3/7		14/31		5/11		5/11		8/19		9/22		24/61	
21	1/3	11/23	5/13	11/24	3/7	11/25	13/30	11/26	10/23	11/27	2/5	3/7	8/19	16/37	26/59	10/23	28/61	13/31	10/21	9/23
22	8/25		19/49		12/29		5/12		5/11		16/35		11/24		27/61		17/41		5/12	
23	16/49	12/25	11/28	6/13	22/53	4/9	7/16	3/7	11/25	12/29	25/59	2/5	25/61	17/39	3/7	18/41	29/65	11/25	31/67	7/17
24	1/3		11/29		13/31		11/26		26/59		17/37		6/13		6/13		29/67		19/45	
25	9/28	13/27	2/5	13/28	13/32	13/29	15/34	13/30	4/9	13/31	4/9	11/27	2/5	14/33	28/67	19/43	10/23	4/9	32/71	4/9
26	18/55		12/31		14/33		3/7		3/7		6/13		19/41		13/28		32/71		20/47	
27	1/3	14/29	23/59	7/15	7/17	14/31	4/9	7/16	17/38	14/33	13/29	12/29	29/69	2/5	9/22	4/9	31/73	21/47	11/25	13/29
28	10/31		13/33		3/7		16/37		13/30		31/69		20/43		7/15		7/15		34/77	
29	20/61	15/31	13/34	15/32	5/12	5/11	29/67	15/34	9/20	3/7	14/31	18/43	32/73	13/31	2/5	8/19	5/12	22/49	34/79	23/51
30	1/3		2/5		28/67		17/39		7/16		32/73		7/15		22/47		15/32		37/81	
31	11/34	16/33	7/18	8/17	8/19	16/35	14/33	4/9	19/42	16/37	5/11	19/45	5/11	14/33	33/79	2/5	21/50	18/41	11/26	24/53
32	22/67		9/23		16/39		18/41		15/34		3/7		36/79		23/49		8/17		8/17	
33	1/3	17/35	15/38	17/36	17/40	17/37	3/7	17/38	5/11	17/39	21/46	20/47	16/35	3/7	36/83	3/7	2/5	18/43	23/54	5/11
34	12/37		5/13		17/41		19/43		4/9		4/9		37/83		8/17		25/53		17/36	
35	24/73	18/37	2/5	9/19	3/7	6/13	19/44	9/20	4/9	18/41	11/24	3/7	17/37	22/51	13/29	16/37	37/89	2/5	3/7	10/23
36	1/3		16/41		18/43		4/9		21/47		17/38		38/87		41/89		26/55		9/19	
37	13/40	19/39	31/79	19/40	34/81	19/41	10/23	19/42	17/39	19/43	23/50	19/44	6/13	23/53	6/13	17/39	40/93	20/47	2/5	5/12
38	26/79		17/43		19/45		37/85		22/49		9/20		3/7		14/31		9/19		28/59	
39	1/3	20/41	17/44	10/21	19/46	20/43	7/16	5/11	18/41	4/9	6/13	10/23	25/54	24/55	19/41	25/57	43/97	18/41	17/41	2/5
40	14/43		2/5		20/47		3/7		23/51		19/42		42/95		43/97		46/99		29/61	
41	28/85	21/43	9/23	21/44	5/12	7/15	11/25	21/46	19/43	21/47	43/95	7/16	13/28	3/7	20/43	26/59	41/90	19/43	41/96	11/26
42	1/3		35/89		3/7		22/51		24/53		5/11		5/11		27/62		26/57		10/21	
43	15/46	22/45	19/48	11/23	21/50	22/47	23/52	11/24	4/9	22/49	4/9	11/25	27/58	22/51	7/15	27/61	7/15	4/9	29/66	4/9
44	30/91		19/49		8/19		23/53		5/11		26/57		21/46		3/7		35/78		29/62	
45	1/3	23/47	2/5	23/48	11/26	23/49	4/9	23/50	25/56	23/51	21/47	23/52	7/15	23/53	29/62	4/9	22/47	29/65	41/91	21/47
46	16/49		20/51		22/53		24/55		25/56		27/59		11/24		37/84		34/77		29/63	
47	8/25	24/49	13/33	12/25	23/54	8/17	38/87	6/13	13/29	24/53	22/49	4/9	39/85	24/55	15/32	3/7	23/49	30/67	41/89	22/49
48	1/3		21/53		23/55		25/57		11/25		28/61		23/50		37/82		10/23		29/64	
49	17/52	25/51	7/18	25/52	3/7	25/53	25/58	25/54	9/20	5/11	23/51	25/56	37/82	25/57	31/66	22/51	8/17	31/69	8/17	32/71
50	17/53		2/5		8/19		26/59		23/52		29/63		6/13		6/13		30/71		29/65	
51	1/3	26/53	11/28	13/27	27/64	26/55	13/30	13/28	14/31	26/57	24/53	13/29	4/9	26/59	8/17	23/53	33/70	27/61	25/53	33/73
52	18/55		28/71		25/59		27/61		4/9		6/13		31/67		25/54		18/41		11/25	
53	9/28	27/55	23/58	27/56	5/12	9/19	27/62	27/58	29/64	27/59	5/11	9/20	5/11	27/61	19/41	24/55	17/36	3/7	26/55	34/75
54	1/3		23/59		26/61		4/9		29/65		30/67		32/69		13/28		4/9		3/7	
55	19/58	27/56	2/5	28/61	13/31	28/59	7/16	27/59	5/11	28/61	31/68	14/31	26/57	31/71	37/81	32/73	35/74	25/57	9/19	5/11
56	19/59		24/61		3/7		39/89		30/67		13/29		33/71		27/58		13/29		3/7	
57	1/99	14/29	32/81	29/63	27/64	29/61	29/66	29/62	43/96	29/63	16/35	29/64	27/59	29/65	41/91	11/25	9/19	37/84	37/78	35/81
58	1/99		25/63		27/65		29/67		31/69		9/20		34/73		7/15		7/15		43/99	
59	1/99	10/21	25/64	6/13	14/33	30/67	15/34	10/23	27/61	30/71	11/24	31/73	28/61	26/61	43/98	34/77	6/13	27/61	19/40	9/22
60	1/99		2/5		28/67		10/23		32/71		14/31		7/15		36/77		39/85		21/47	

k \ i	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43
2	4/9		13/29		14/31		5/11		16/35		17/37		6/13		19/41		20/43		7/15	
3	5/13	2/5	11/28	11/29	2/5	12/31	2/5	13/33	13/34	2/5	7/18	2/5	15/38	5/13	2/5	16/41	2/5	17/43	17/44	2/5
4	13/31		14/33		3/7		16/37		17/39		18/41		19/43		4/9		21/47		22/49	
5	3/7	12/29	3/7	13/31	13/32	14/33	7/17	3/7	5/12	3/7	8/19	16/39	17/40	17/41	3/7	18/43	3/7	19/45	19/46	20/47
6	2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53	
7	13/30	8/19	7/16	2/5	15/34	3/7	4/9	16/37	4/9	17/39	20/47	18/41	3/7	19/43	19/44	4/9	10/23	4/9	7/16	3/7
8	12/31		13/33		2/5		2/5		19/47		20/49		7/17		22/53		23/55		8/19	
9	16/41	5/11	18/43	5/11	4/9	10/23	17/38	5/12	9/20	2/5	19/42	11/26	5/11	4/9	5/11	21/47	25/57	22/49	25/59	23/51
10	17/43		2/5		15/37		16/39		17/41		5/12		2/5		19/47		20/49		7/17	
11	2/5	16/35	5/13	17/37	19/49	6/13	7/17	6/13	23/53	4/9	5/11	3/7	21/46	12/29	11/24	2/5	23/50	13/31	6/13	7/16
12	3/7		3/7		20/51		21/53		18/43		19/45		20/47		3/7		3/7		2/5	
13	3/7	11/25	7/17	6/13	2/5	19/41	2/5	20/43	17/44	7/15	24/59	7/15	26/61	14/31	4/9	7/16	6/13	14/33	25/54	7/17
14	16/37		17/39		7/16		8/19		23/59		24/61		3/7		22/51		23/53		24/55	
15	24/53	16/39	24/55	3/7	8/19	13/29	9/22	7/15	7/17	22/47	25/63	23/49	2/5	8/17	21/52	8/17	29/69	16/35	31/71	4/9
16	23/55		18/41		19/43		4/9		4/9		27/65		7/18		9/23		30/71		25/57	
17	9/19	17/41	27/59	18/43	27/61	8/19	3/7	7/16	5/12	5/11	21/50	8/17	8/19	25/53	28/71	26/55	29/73	9/19	12/29	9/19
18	16/41		25/61		4/9		21/47		22/49		9/20		31/71		30/73		2/5		23/59	
19	10/21	12/31	10/21	19/45	6/13	20/47	30/67	3/7	10/23	3/7	11/26	4/9	23/54	17/37	3/7	9/19	3/7	28/59	31/79	29/61
20	1/3		2/5		19/47		10/23		23/51		24/53		5/11		5/11		34/79		9/22	
21	21/44	1/3	11/23	18/47	11/23	3/7	33/71	22/51	33/73	23/53	11/25	10/23	3/7	17/39	25/58	9/20	13/30	19/41	10/23	10/21
22	26/67		1/3		28/71		7/17		32/75		5/11		26/57		27/59		11/24		38/85	
23	11/23	2/5	23/48	1/3	12/25	20/51	12/25	8/19	36/77	24/55	36/79	25/57	4/9	11/25	36/83	3/7	27/62	19/43	7/16	5/11
24	11/26		5/13		1/3		30/77		23/55		8/19		37/83		28/61		29/63		6/13	
25	34/73	11/27	12/25	15/38	25/52	1/3	13/27	2/5	13/27	17/41	39/83	26/59	39/85	27/61	13/29	4/9	39/89	4/9	3/7	10/23
26	3/7		3/7		11/28		22/67		22/57		25/59		26/61		39/89		6/13		31/67	
27	5/11	17/39	37/79	12/29	13/27	16/41	27/56	1/3	14/29	17/43	14/29	25/61	42/89	4/9	6/13	29/65	14/31	30/67	42/95	13/29
28	22/51		13/30		35/83		2/5		1/3		24/61		3/7		28/65		29/67		44/97	
29	4/9	14/31	38/83	3/7	8/17	13/31	14/29	12/31	29/60	1/99	15/31	9/23	15/31	27/65	9/19	7/16	45/97	31/69	5/11	32/71
30	23/53		24/55		7/16		37/89		36/91		1/99		2/5		41/97		10/23		31/71	
31	37/85	5/11	13/29	5/11	41/89	25/59	43/91	14/33	15/31	13/33	31/64	1/99	16/33	26/67	16/33	29/69	29/61	22/51	41/88	33/73
32	13/29		25/57		26/59		15/34		7/17		38/97		1/99		9/23		38/91		32/73	
33	3/7	26/57	40/91	16/35	14/31	21/47	44/95	3/7	46/97	3/7	16/33	2/5	33/68	1/99	17/35	28/71	17/35	31/73	41/86	32/75
34	6/13		41/93		27/61		4/9		4/9		5/12		7/18		1/99		7/18		31/75	
35	25/58	27/59	16/37	28/61	43/97	17/37	5/11	11/25	27/58	16/37	39/82	40/97	17/35	22/57	35/72	1/99	18/37	2/5	18/37	3/7
36	9/19		44/97		4/9		29/65		17/38		39/89		8/19		15/38		1/99		30/77	
37	13/30	22/49	27/62	29/63	17/39	6/13	25/56	6/13	16/35	10/23	43/92	17/39	31/65	16/39	18/37	5/13	37/76	1/99	19/39	1/99
38	19/40		27/58		25/56		30/67		31/69		9/20		3/7		17/40		25/77		1/99	
39	23/54	22/51	7/16	6/13	18/41	31/67	29/66	19/41	40/89	5/11	17/37	32/73	38/81	18/41	11/23	17/41	19/39	1/99	39/80	1/99
40	10/21		10/21		38/83		37/84		32/71		33/73		19/42		3/7		3/7		1/99	
41	2/5	27/65	29/66	4/9	15/34	32/69	19/43	33/71	27/61	20/43	33/73	11/25	6/13	34/77	37/80	19/43	35/73	18/43	20/41	1/99
42	31/65		21/44		37/79		37/82		43/97		34/75		5/11		5/11		19/44		27/65	
43	19/45	2/5	36/85	3/7	31/70	26/57	4/9	34/73	4/9	7/15	41/92	7/15	9/20	35/79	19/41	4/9	13/28	4/9	10/21	19/45
44	32/67		11/23		11/23		43/94		7/16		5/11		36/79		21/46		10/23		10/23	
45	20/47	8/19	2/5	30/71	4/9	26/59	33/74	7/15	21/47	36/77	18/41	22/47	43/96	21/47	19/42	37/83	20/43	21/47	41/88	28/65
46	11/23		34/71		23/48		41/87		22/49		11/25		37/81		38/83		11/24		37/84	
47	17/39	26/59	3/7	1/99	23/56	32/75	17/38	34/77	35/78	37/79	22/49	38/81	19/43	23/49	39/88	38/85	5/11	13/29	7/15	22/49
48	8/17		35/73		12/25		12/25		41/89		23/52		29/66		39/85		40/87		23/50	
49	29/65	23/51	22/51	13/31	1/99	3/7	41/93	7/16	9/20	37/81	23/51	39/83	43/97	8/17	4/9	8/17	41/92	40/89	21/46	41/91
50	45/98		12/25		37/77		25/52		43/93		24/53		4/9		13/29		41/89		6/13	
51	40/89	24/53	23/53	18/43	22/53	1/99	29/70	35/81	37/82	4/9	19/42	8/17	43/95	41/87	10/23	25/53	21/47	31/68	43/96	14/31
52	37/81		36/77		38/79		13/27		13/27		32/69		25/56		40/93		6/13		43/93	
53	5/11	5/11	7/16	5/11	24/55	1/99	1/99	1/99	41/95	37/85	39/86	13/29	5/11	42/89	5/11	43/91	7/16	26/55	22/49	25/56
54	35/79		43/93		13/27		40/83		27/56		33/71		26/57		3/7		35/81		44/95	
55	9/19	36/79	13/29	26/57	25/57	10/23	1/99	1/99	1/99	38/87	5/11	4/9	41/90	6/13	26/57	44/93	38/87	9/19	11/25	9/19
56	4/9		37/83		39/83		41/85		14/29		14/29		41/88		9/20		43/99		43/96	
57	28/59	37/81	5/11	27/59	37/84	26/59	25/58	1/99	1/99	1/99	19/45	40/91	21/46	25/56	43/94	9/19	29/66	46/97	43/98	28/59
58	36/83		38/85		33/71		14/29		43/89		29/60		43/92		41/95		14/31		1/99	
59	29/61	38/83	28/61	39/85	19/43	40/89	27/61	23/54	1/99	1/99	1/99	41/93	21/47	42/95	11/24	44/97	28/61	47/99	27/61	29/61
60	36/83		13/29		27/59		42/89		44/91		15/31		15/31		37/79		43/99		37/85	

k \ i	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3
2	22/47		23/49		8/17		25/53		26/55		9/19		28/59		29/61		10/21		31/65	
3	9/23	2/5	19/48	19/49	2/5	20/51	2/5	21/53	7/18	2/5	11/28	2/5	23/58	23/59	2/5	24/61	2/5	25/63	25/64	2/5
4	23/51		24/53		5/11		26/57		27/59		28/61		29/63		6/13		31/67		32/69	
5	5/12	3/7	21/50	3/7	11/26	22/53	23/54	23/55	3/7	8/19	3/7	25/59	5/12	26/61	13/31	3/7	27/64	3/7	14/33	28/67
6	24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
7	11/25	22/51	23/52	23/53	4/9	24/55	4/9	25/57	25/58	26/59	13/30	27/61	27/62	4/9	7/16	4/9	29/66	29/67	15/34	10/23
8	25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77	
9	26/61	24/53	4/9	5/11	25/56	5/11	13/29	15/34	9/20	3/7	14/31	4/9	29/64	29/65	5/11	30/67	5/11	31/69	35/79	32/71
10	22/53		5/12		28/67		29/69		30/71		31/73		32/75		3/7		34/79		35/81	
11	6/13	5/11	30/67	26/57	10/23	27/59	30/71	28/61	31/73	29/63	11/25	6/13	5/11	6/13	31/68	9/20	16/35	18/41	11/24	3/7
12	23/55		8/19		25/59		26/61		3/7		3/7		28/67		29/69		30/71		31/73	
13	13/28	2/5	27/58	5/12	7/15	16/37	7/15	17/38	5/11	6/13	35/79	31/67	35/81	32/69	35/83	33/71	36/85	34/73	38/87	7/15
14	7/16		31/73		2/5		3/7		28/65		29/67		10/23		31/71		7/16		38/89	
15	33/73	16/37	7/15	8/19	29/62	7/17	15/32	2/5	31/66	17/41	8/17	3/7	8/17	19/43	40/87	5/11	40/89	7/15	40/91	36/77
16	26/59		27/61		4/9		4/9		35/83		2/5		37/87		32/73		11/25		34/77	
17	5/12	6/13	34/79	9/20	4/9	18/41	38/83	3/7	8/17	29/69	33/70	8/19	17/36	2/5	35/74	31/75	9/19	20/47	9/19	7/16
18	33/79		4/9		29/65		30/67		31/69		9/20		40/91		13/31		2/5		41/97	
19	32/81	10/21	27/64	10/21	14/33	20/43	29/68	5/11	39/89	4/9	41/91	10/23	43/93	32/75	9/19	3/7	37/78	3/7	19/40	37/93
20	33/83		2/5		12/29		39/89		32/71		33/73		34/75		5/11		5/11		27/62	
21	36/85	31/65	9/23	32/67	35/89	11/23	3/7	11/23	31/72	22/47	16/37	11/24	33/76	22/49	17/39	11/25	41/90	35/81	41/88	36/83
22	37/87		5/12		36/91		37/93		30/73		42/97		5/11		36/79		37/81		38/83	
23	29/66	7/15	11/25	11/23	13/31	34/71	2/5	35/73	29/74	12/25	14/33	12/25	17/39	8/17	7/16	6/13	18/41	24/53	11/25	37/85
24	6/13		41/93		30/71		11/26		13/33		35/89		33/79		3/7		35/78		39/85	
25	15/34	21/47	31/70	11/24	4/9	23/49	4/9	12/25	19/46	37/77	18/47	38/79	1/99	13/27	37/88	13/27	37/84	26/55	19/43	13/28
26	32/69		13/28		5/11		27/62		3/7		3/7		1/99		1/99		36/85		37/87	
27	42/97	3/7	4/9	11/25	33/74	23/51	17/38	6/13	13/29	25/53	3/7	13/27	12/29	40/83	1/99	41/85	1/99	14/29	22/53	14/29
28	33/71		34/73		7/15		7/15		35/78		35/81		13/30		22/53		1/99		1/99	
29	41/92	14/31	38/87	23/52	3/7	23/53	35/78	4/9	9/20	5/11	37/82	13/28	14/31	9/19	8/19	14/29	13/31	43/89	1/99	44/91
30	25/56		7/15		36/77		37/79		15/32		22/49		37/85		38/87		7/16		13/32	
31	16/35	34/75	35/78	5/11	37/84	5/11	16/37	3/7	18/41	25/57	19/42	13/29	39/86	27/59	5/11	7/15	5/11	29/61	3/7	15/31
32	11/25		15/34		17/37		38/81		39/83		8/17		8/17		33/73		40/91		41/93	
33	29/62	5/11	17/37	36/79	37/82	37/81	43/97	16/35	3/7	20/47	3/7	38/89	5/11	27/61	41/90	14/31	21/46	43/95	16/35	44/95
34	34/77		35/79		4/9		29/64		8/17		41/87		42/89		17/36		5/11		42/95	
35	43/90	34/79	31/66	13/29	18/41	38/83	44/97	39/85	37/86	17/37	19/44	11/25	11/26	3/7	10/23	41/95	43/94	43/97	11/24	5/11
36	33/79		4/9		37/83		38/85		39/89		41/89		43/91		44/93		9/19		44/97	
37	19/39	34/81	34/71	36/83	19/42	37/85	19/43	40/87	19/44	41/89	13/30	6/13	10/23	6/13	27/62	23/53	27/64	42/97	22/49	27/62
38	1/99		35/83		37/85		13/29		40/89		9/20		41/90		9/19		46/97		47/99	
39	20/41	1/99	20/41	7/17	20/43	38/87	5/11	39/89	4/9	6/13	10/23	43/93	41/94	44/95	7/16	43/97	43/98	24/55	1/99	1/99
40	1/99		1/99		37/87		25/58		41/91		14/31		33/73		43/97		46/99		29/61	
41	41/84	1/99	21/43	1/99	21/44	37/89	7/15	40/91	21/46	41/93	21/47	43/95	7/16	45/97	3/7	46/99	11/25	33/71	15/34	13/29
42	1/99		1/99		1/99		3/7		40/93		43/95		44/97		5/11		27/62		26/57	
43	21/43	1/99	43/88	1/99	22/45	1/99	11/23	1/99	22/47	42/95	11/24	43/97	22/49	4/9	11/25	27/58	22/51	41/88	23/52	7/15
44	5/12		1/99		1/99		1/99		8/19		42/97		5/11		41/90		26/57		40/91	
45	21/44	20/47	22/45	1/99	45/92	1/99	23/47	1/99	23/48	1/99	23/49	4/9	23/50	41/92	23/51	25/56	23/52	7/15	23/53	43/92
46	7/16		1/99		1/99		1/99		1/99		1/99		27/62		25/56		16/35		38/83	
47	43/92	3/7	11/23	3/7	23/47	1/99	47/96	1/99	24/49	1/99	12/25	1/99	8/17	38/87	6/13	30/67	24/53	35/78	4/9	39/85
48	40/91		11/25		1/99		1/99		1/99		1/99		1/99		1/99		29/66		39/85	
49	22/47	23/51	15/32	22/51	23/48	1/99	24/49	1/99	25/51	1/99	25/51	1/99	25/52	1/99	25/53	1/99	25/54	40/89	5/11	41/91
50	6/13		42/95		23/52		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	11/24	43/95	23/49	24/53	39/83	1/99	12/25	1/99	25/51	1/99	26/53	1/99	26/53	1/99	13/27	1/99	26/55	1/99	13/28	37/82
52	25/54		4/9		4/9		4/9		1/99		1/99		1/99		1/99		1/99		1/99	
53	9/20	44/97	23/50	5/11	8/17	5/11	41/87	1/99	25/52	1/99	26/53	1/99	27/55	1/99	27/55	1/99	27/56	1/99	9/19	1/99
54	45/97		13/28		35/78		25/56		3/7		1/99		1/99		1/99		1/99		1/99	
55	23/51	5/11	33/73	41/90	6/13	26/57	25/53	25/57	17/36	1/99	13/27	1/99	27/55	1/99	28/57	1/99	28/57	1/99	14/29	1/99
56	46/99		27/58		27/58		30/67		13/29		1/99		1/99		1/99		1/99		1/99	
57	23/52	35/76	24/53	26/57	44/97	16/35	25/54	27/59	26/55	37/84	44/93	1/99	27/56	1/99	28/57	1/99	29/59	1/99	29/59	1/99
58	41/90		41/88		7/15		7/15		40/89		9/20		1/99		1/99		1/99		1/99	
59	1/99	29/61	4/9	14/31	5/11	38/83	41/90	39/85	13/28	34/77	9/19	1/99	46/97	1/99	14/29	1/99	29/59	1/99	30/61	1/99
60	1/99		7/15		43/92		29/62		14/31		37/82		10/23		1/99		1/99		1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{1, 1+k, 1+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/3	2/7	1/3	2/5	2/5	4/11	1/3	5/14	2/5	2/5	3/8	6/17	7/19	2/5	2/5	8/21	4/11	3/8	2/5	2/5	5/13	10/27	11/29	2/5	2/5	12/31	3/8	13/34	2/5	2/5	7/18	14/37	5/13	2/5	2/5	16/41	8/21	17/44	2/5	2/5	9/23	18/47	19/49	2/5	2/5	20/51	5/13	7/18	2/5	2/5	11/28	22/57	23/59	2/5	2/5	24/61	12/31	25/64	2/5	2/5
2	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
3	4/11	1/3	2/5	3/7	1/3	5/13	3/7	7/18	3/8	7/17	3/7	7/19	2/5	3/7	2/5	9/23	5/12	3/7	5/13	11/27	3/7	13/32	2/5	13/31	3/7	13/33	7/17	3/7	16/39	15/37	8/19	3/7	2/5	17/41	3/7	19/46	9/22	19/45	3/7	19/47	5/12	3/7	22/53	7/17	11/26	3/7	11/27	23/55	3/7	5/12	12/29	25/59	3/7	25/61	13/31	3/7	28/67	27/65	14/33	3/7
4	5/13		2/5		7/17		8/19		3/7		10/23		11/25		4/9		13/29		14/31		5/11		16/35		17/37		6/13		19/41		20/43		7/15		22/47		23/49		8/17		25/53		26/55		9/19		28/59		29/61		10/21		31/65		32/67		11/23		34/71	
5	2/5	5/16	6/17	4/9	3/7	2/5	1/3	9/22	4/9	8/19	2/5	5/13	4/9	10/23	5/12	2/5	13/31	4/9	3/7	12/29	2/5	4/9	7/16	14/33	7/17	17/40	4/9	16/37	8/19	16/39	4/9	18/41	3/7	18/43	3/7	4/9	10/23	20/47	5/12	4/9	11/25	22/51	11/26	25/58	4/9	24/55	3/7	8/19	4/9	26/59	13/30	26/61	29/67	4/9	7/16	28/65	14/33	4/9	15/34	10/23
6	4/11		5/13		2/5		2/5		2/5		8/21		9/23		2/5		2/5		2/5		12/31		13/33		2/5		2/5		2/5		16/41		17/43		2/5		2/5		2/5		20/51		21/53		2/5		2/5		2/5		24/61		25/63		2/5		2/5		2/5	
7	7/19	4/13	3/7	5/11	4/11	3/8	4/9	11/26	1/3	3/7	5/11	2/5	12/31	11/25	5/11	13/34	3/7	13/29	16/37	15/38	7/16	5/11	17/41	3/7	4/9	5/11	2/5	17/39	9/20	7/16	3/7	19/43	5/11	11/26	10/23	21/47	5/11	3/7	11/25	23/51	26/59	23/53	4/9	5/11	3/7	25/57	13/29	5/11	13/30	27/61	14/31	31/70	7/16	29/65	5/11	29/67	15/34	31/69	5/11	31/71
8	8/21		9/23		2/5		11/27		12/29		13/31		14/33		3/7		16/37		17/39		18/41		19/43		4/9		21/47		22/49		23/51		24/53		5/11		26/57		27/59		28/61		29/63		6/13		31/67		32/69		33/71		34/73		7/15		36/77		37/79	
9	9/23	1/3	3/8	6/13	4/9	7/19	5/13	13/30	5/11	13/32	1/3	7/17	6/13	4/9	14/37	15/38	6/13	14/31	17/41	5/13	19/43	16/35	4/9	9/23	20/47	6/13	9/20	21/50	7/17	6/13	5/11	4/9	2/5	25/56	11/24	22/49	25/59	13/30	6/13	24/53	4/9	27/64	6/13	26/57	13/29	29/68	31/69	28/61	14/31	4/9	32/73	6/13	5/11	30/67	3/7	6/13	16/35	32/71	4/9	37/82
10	2/5		7/17		8/19		3/7		3/7		3/7		11/27		12/29		13/31		14/33		3/7		3/7		3/7		17/41		18/43		19/45		20/47		3/7		3/7		3/7		23/55		8/19		25/59		26/61		3/7		3/7		3/7		29/69		30/71		31/73	
11	3/8	9/28	12/29	7/15	2/5	8/21	5/11	15/34	2/5	2/5	6/13	8/19	1/3	17/40	7/15	17/42	3/8	5/11	7/15	2/5	19/47	17/37	22/49	2/5	22/51	19/41	23/53	7/18	5/11	7/15	8/19	12/29	11/24	7/15	25/61	27/62	6/13	29/64	2/5	5/11	13/28	15/34	29/69	27/59	7/15	31/72	32/73	29/63	7/15	8/19	5/11	31/67	36/79	17/40	16/35	33/71	37/83	37/84	17/37	7/15
12	11/29		12/31		13/33		2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53		24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73		34/75		5/11		36/79		37/81		38/83		39/85		40/87	
13	12/31	6/19	2/5	8/17	3/7	9/23	7/17	17/38	6/13	11/27	16/41	3/7	7/15	7/17	1/3	19/46	8/17	7/16	7/18	15/37	8/17	6/13	2/5	7/17	5/11	20/43	8/19	23/58	26/59	22/47	27/61	19/49	3/7	8/17	6/13	9/22	28/67	8/17	13/28	3/7	7/17	11/24	7/15	33/74	2/5	17/38	15/32	6/13	33/79	7/16	8/17	32/69	36/83	3/7	8/17	34/73	13/29	37/88	41/89	36/77
14	13/33		3/7		10/23		11/25		4/9		4/9		4/9		20/47		3/7		16/37		17/39		18/41		19/43		4/9		4/9		4/9		22/51		23/53		24/55		25/57		26/59		27/61		4/9		4/9		4/9		10/23		31/71		32/73		11/25		34/77	
15	2/5	1/3	15/37	9/19	5/12	2/5	18/41	19/42	8/19	12/29	7/15	10/23	18/47	8/19	8/17	21/50	1/3	11/26	9/19	16/39	2/5	25/56	9/19	18/43	9/22	7/15	28/61	8/19	5/12	23/49	29/65	13/33	29/67	25/53	10/23	2/5	32/71	9/19	31/73	24/59	7/15	9/19	13/31	11/26	15/32	37/80	8/19	18/41	8/17	19/42	2/5	39/86	17/36	39/88	37/89	7/15	9/19	10/23	40/93	37/79
16	8/21		9/23		2/5		2/5		2/5		19/47		20/49		7/17		22/53		23/55		8/19		25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77		35/79		4/9		37/83		38/85		13/29		40/89		41/91		14/31		43/95	
17	5/13	13/40	5/12	10/21	18/43	17/44	3/7	21/46	21/47	13/31	3/7	11/25	8/17	3/7	8/21	23/54	9/19	3/7	1/3	17/41	10/21	13/30	24/61	19/45	10/21	29/64	5/12	3/7	31/67	8/17	11/26	3/7	32/71	26/55	3/7	29/74	11/25	28/59	34/77	31/78	34/79	10/21	37/81	27/65	14/33	10/21	8/17	29/69	3/7	41/88	17/36	13/30	3/7	21/46	9/19	21/47	2/5	43/96	19/40	45/98
18	16/41		18/43		4/9		13/29		14/31		5/11		5/11		5/11		25/57		25/59		26/61		4/9		21/47		22/49		23/51		24/53		5/11		5/11		5/11		35/79		4/9		29/65		30/67		31/69		32/71		33/73		34/75		5/11		5/11		5/11	
19	17/43	8/25	2/5	11/23	3/7	11/29	3/7	23/50	10/23	14/33	24/53	4/9	23/55	16/37	9/19	25/58	9/23	10/23	10/21	13/31	1/3	27/64	11/23	20/47	26/67	15/34	11/23	22/51	11/26	11/24	34/73	10/23	3/7	9/19	5/11	11/26	13/30	29/61	4/9	9/23	10/23	31/65	37/85	17/43	13/29	11/23	3/7	30/71	6/13	11/23	16/37	32/75	9/19	15/32	10/23	34/79	19/40	23/50	23/54	15/34
20	2/5		11/27		12/29		5/12		5/12		2/5		15/37		16/39		17/41		5/12		5/12		28/67		29/69		30/71		31/73		32/75		3/7		34/79		35/81		36/83		37/85		38/87		39/89		40/91		41/93		42/95		43/97		38/87		41/92		25/56	
21	5/13	1/3	3/7	12/25	7/17	12/31	7/16	25/54	24/55	3/7	11/25	13/29	27/59	17/39	25/61	27/62	10/21	11/25	2/5	14/33	11/23	29/68	1/3	3/7	12/25	31/72	5/13	23/53	12/25	17/38	3/7	25/57	37/79	37/80	13/30	11/25	38/83	10/21	7/16	18/43	13/29	32/67	11/25	2/5	40/91	34/71	41/93	34/87	16/37	12/25	44/97	3/7	17/39	12/25	27/58	35/81	18/41	41/87	10/21	37/85
22	19/49		7/17		23/53		5/11		16/35		17/37		6/13		6/13		6/13		30/67		10/23		30/71		31/73		11/25		5/11		26/57		27/59		28/61		29/63		6/13		6/13		6/13		14/31		42/95		43/97		5/11		36/79		37/81		38/83		39/85	
23	20/51	17/52	2/5	13/27	7/16	13/33	8/19	27/58	4/9	5/12	27/61	14/31	4/9	18/41	6/13	29/66	11/27	4/9	11/23	3/7	28/71	4/9	12/25	31/74	1/3	8/19	13/27	24/55	11/28	7/16	13/27	26/59	35/83	19/42	8/17	4/9	7/16	41/88	41/89	4/9	15/34	11/23	14/31	7/17	4/9	35/73	43/97	17/44	4/9	37/77	17/39	1/99	25/56	13/27	18/41	31/73	38/83	13/27	19/43	38/87
24	21/53		13/31		14/33		3/7		3/7		3/7		2/5		18/43		19/45		20/47		3/7		3/7		3/7		23/55		8/19		25/59		26/61		3/7		3/7		3/7		40/93		41/95		42/97		43/99		27/62		38/87		39/89		29/66		37/84		34/77	
25	2/5	10/31	8/19	14/29	7/17	2/5	4/9	29/62	3/7	16/39	13/29	5/11	30/67	19/43	10/23	31/70	33/71	21/47	12/29	16/37	12/25	13/29	30/77	11/26	13/27	17/40	1/99	35/82	14/29	3/7	2/5	27/61	14/29	39/88	37/89	29/65	43/91	21/46	15/34	13/29	44/95	15/32	4/9	43/98	5/11	12/25	17/38	12/29	25/56	38/79	13/29	1/99	29/66	40/83	37/84	1/99	19/43	14/29	37/82	1/99
26	12/31		24/59		26/61		4/9		6/13		19/41		20/43		7/15		7/15		7/15		5/11		35/79		35/81		35/83		36/85		38/87		40/89		6/13		31/67		32/69		33/71		34/73		7/15		7/15		7/15		21/47		40/89		34/77		11/25		33/73	
27	23/59	1/3	7/17	15/31	4/9	25/64	13/31	31/66	9/20	17/41	10/23	16/35	14/31	4/9	33/73	33/74	32/75	22/49	36/77	17/39	13/31	14/31	13/27	35/82	12/31	37/84	14/29	13/31	1/99	37/88	15/31	4/9	36/91	10/23	15/31	30/67	7/17	43/96	46/97	32/71	4/9	23/50	27/58	14/31	17/38	41/87	16/35	23/53	9/20	13/27	40/89	13/31	14/31	41/85	27/64	1/99	43/97	43/89	4/9	1/99
28	24/61		3/7		16/37		17/39		7/16		7/16		31/73		2/5		3/7		22/51		23/53		24/55		7/16		7/16		38/89		3/7		28/65		29/67		10/23		31/71		7/16		7/16		3/7		34/79		35/81		36/83		37/85		38/87		7/16		7/16	
29	25/63	21/64	27/65	16/33	8/19	5/13	9/20	33/70	14/33	18/43	5/11	17/37	11/25	33/76	5/11	35/78	36/79	23/51	11/26	18/41	39/83	5/11	14/33	37/86	14/29	5/11	13/33	14/33	15/31	39/92	1/99	20/47	16/33	41/96	13/34	31/69	16/33	11/25	5/12	33/73	39/82	33/73	39/89	5/11	43/92	25/54	9/20	5/11	17/37	44/93	19/42	41/96	37/86	14/29	5/11	1/99	19/45	44/91	5/11	1/99
30	2/5		15/37		29/69		31/71		33/73		7/15		22/47		23/49		8/17		8/17		8/17		40/87		40/89		40/91		40/93		8/19		41/97		43/99		41/92		26/57		7/15		36/77		37/79		38/81		39/83		8/17		8/17		8/17		24/53		24/53	
31	7/18	12/37	8/19	17/35	31/71	16/41	3/7	35/74	5/11	19/45	3/7	6/13	16/35	3/7	4/9	37/82	37/83	24/53	39/85	19/43	3/7	26/57	42/89	13/30	3/7	16/35	15/31	3/7	2/5	7/16	16/33	3/7	1/99	29/69	17/35	15/34	1/99	29/67	35/74	34/75	8/19	4/9	6/13	36/79	17/40	41/90	37/82	16/35	19/42	39/85	27/61	7/16	5/11	42/89	13/30	3/7	21/46	15/31	20/47	1/99
32	9/23		30/71		18/41		19/43		4/9		4/9		4/9		35/83		2/5		37/87		25/57		26/59		27/61		4/9		4/9		4/9		35/83		30/71		32/73		11/25		34/77		35/79		4/9		4/9		4/9		23/54		39/89		40/91		41/93		42/95	
33	28/71	1/3	30/73	18/37	3/7	17/43	5/11	37/78	16/37	20/47	11/24	19/41	36/83	22/51	17/37	39/86	13/29	5/11	39/89	4/9	6/13	27/59	16/37	41/94	9/19	17/37	41/97	28/65	16/33	9/20	1/99	16/37	17/35	11/26	1/99	8/19	18/37	32/75	1/99	5/11	37/78	36/83	17/40	37/81	19/41	13/29	3/7	39/85	39/86	41/91	5/11	9/20	4/9	6/13	21/46	40/93	41/94	9/19	11/24	1/99
34	29/73		17/41		18/43		34/79		4/9		38/83		8/17		25/53		26/55		9/19		9/19		9/19		45/97		5/11		41/92		38/87		3/7		8/19		39/94		20/47		34/79		22/49		38/83		8/17		41/87		42/89		43/91		44/93		9/19		45/97	
35	2/5	25/76	3/7	19/39	34/79	2/5	10/23	39/82	11/24	3/7	17/39	20/43	6/13	23/53	39/89	41/90	6/13	41/92	14/31	21/47	13/30	28/61	45/97	43/98	17/39	6/13	29/61	29/67	16/39	6/13	17/35	17/39	1/99	41/95	18/37	38/91	1/99	3/7	19/39	34/79	1/99	35/81	39/82	38/83	1/99	39/89	20/43	40/87	19/44	14/31	41/90	6/13	41/92	44/97	21/47	41/95	11/24	45/97	43/98	43/99
36	16/41		33/79		4/9		21/47		22/49		9/20		9/20		40/91		13/31		2/5		41/97		4/9		29/65		30/67		31/69		9/20		9/20		22/51		26/63		41/97		4/9		37/83		38/85		13/29		40/89		40/89		34/77		1/99		1/99		1/99	
37	31/79	14/43	9/22	20/41	10/23	11/28	38/85	41/86	18/41	37/88	6/13	7/15	3/7	24/55	19/41	43/94	42/95	18/41	44/97	22/49	5/11	29/63	7/16	15/34	41/88	31/67	18/41	10/23	41/86	19/41	17/41	32/73	18/37	42/97	1/99	18/41	19/39	37/89	1/99	11/27	20/41	36/83	1/99	38/85	41/86	38/87	1/99	41/89	7/15	42/95	10/23	43/93	43/94	5/11	7/16	25/54	22/49	26/57	23/50	27/62
38	32/81		19/45		20/47		3/7		39/89		41/91		43/93		9/19		28/59		29/61		10/21		10/21		10/21		43/92		5/11		41/91		10/23		10/23		3/7		3/7		35/83		31/73		23/53		39/89		5/11		43/93		9/19		46/97		47/99		29/61	
39	33/83	1/3	36/85	21/43	37/87	19/49	11/25	43/90	6/13	22/53	19/43	22/47	13/28	25/57	42/97	45/98	20/43	19/43	41/92	23/51	25/56	6/13	16/35	43/97	15/34	32/69	17/37	31/71	19/43	20/43	35/74	11/25	1/99	25/56	19/39	19/43	1/99	13/30	20/41	1/99	1/99	1/99	21/43	36/83	1/99	39/89	43/90	6/13	1/99	41/93	22/47	44/95	7/16	41/92	45/98	46/99	1/99	16/35	23/51	25/56
40	2/5		12/29		39/89		23/51		24/53		5/11		5/11		5/11		27/62		38/91		1/99		20/49		37/84		32/71		33/73		34/75		5/11		5/11		5/11		27/62		1/99		1/99		39/89		41/91		14/31		43/95		44/97		5/11		27/62		5/11	
41	9/23	15/47	5/12	22/45	11/25	20/51	41/93	45/94	4/9	23/55	13/28	23/49	4/9	26/59	7/15	41/89	38/87	4/9	7/15	24/53	35/78	44/97	15/34	41/92	17/37	33/71	4/9	25/57	6/13	7/15	4/9	34/77	37/78	7/15	1/99	4/9	20/41	37/84	1/99	4/9	21/43	1/99	1/99	1/99	22/45	40/91	1/99	41/93	45/94	42/95	1/99	45/97	23/49	4/9	1/99	27/58	41/89	35/78	1/99	7/15
42	35/89		3/7		22/51		23/53		10/23		4/9		41/90		41/88		10/21		31/65		32/67		11/23		11/23		11/23		11/24		11/24		43/96		11/25		11/25		10/23		10/23		1/99		1/99		1/99		41/95		26/59		4/9		41/90		41/88		10/21	
43	36/91	1/4	13/31	23/47	11/26	21/53	4/9	47/98	5/11	8/19	21/47	8/17	7/15	27/61	3/7	43/93	22/47	29/65	37/84	5/11	21/47	21/47	33/74	24/55	4/9	34/73	6/13	40/93	21/47	36/77	19/41	35/79	3/7	22/47	39/82	37/83	1/99	34/77	21/43	21/47	1/99	1/99	22/45	1/99	1/99	1/99	23/47	1/99	1/99	1/99	47/98	5/11	1/99	1/99	8/17	41/88	1/99	1/99	43/93	43/92
44	37/93		7/17		42/97		5/11		26/57		27/59		11/24		11/24		40/89		16/37		5/12		1/99		1/99		38/87		5/11		36/79		37/81		38/83		11/24		11/24		7/16		1/99		1/99		1/99		1/99		5/11		41/90		26/57		16/35		38/83	
45	2/5	1/99	11/26	45/94	4/9	2/5	27/62	23/49	13/29	25/59	7/15	25/53	22/49	4/9	15/32	32/69	16/37	30/67	23/49	26/57	17/39	22/49	37/83	25/57	35/78	7/15	17/38	35/81	19/41	37/79	22/49	4/9	20/43	23/49	3/7	38/85	41/86	22/49	1/99	22/49	22/45	15/34	1/99	3/7	23/47	1/99	1/99	1/99	24/49	1/99	1/99	1/99	37/77	1/99	1/99	7/15	25/53	1/99	1/99	29/62
46	20/51		14/33		24/55		25/57		11/25		11/25		40/89		5/11		31/67		11/23		34/71		35/73		12/25		12/25		12/25		6/13		6/13		33/73		4/9		4/9		40/91		1/99		1/99		1/99		1/99		1/99		1/99		1/99		29/66		40/89	
47	13/33	1/99	37/89	47/98	3/7	28/71	13/29	8/17	35/78	26/61	23/51	26/55	15/32	28/65	27/61	33/71	8/17	31/69	17/39	31/73	8/17	23/51	18/41	26/59	17/38	5/11	37/82	34/79	9/20	38/81	20/43	22/51	23/51	8/17	7/15	13/29	1/99	8/17	43/90	41/91	1/99	43/97	23/47	23/51	1/99	1/99	24/49	1/99	1/99	1/99	25/51	1/99	1/99	1/99	38/79	35/78	1/99	1/99	26/55	37/79
48	21/53		23/55		3/7		35/78		28/61		29/63		6/13		6/13		6/13		41/93		23/54		1/99		1/99		1/99		1/99		37/83		39/85		40/87		41/89		6/13		6/13		6/13		41/92		1/99		1/99		1/99		1/99		1/99		39/85		17/37	
49	39/98	1/99	3/7	37/77	25/58	23/59	13/30	25/53	14/31	3/7	29/64	32/69	24/53	29/67	8/17	10/23	3/7	32/71	41/87	31/69	18/41	24/53	24/53	27/61	19/43	35/79	9/20	35/81	39/86	39/83	19/42	14/33	7/15	41/87	42/97	40/89	22/47	25/53	1/99	14/31	45/94	41/92	1/99	24/53	24/49	1/99	1/99	1/99	25/51	1/99	1/99	1/99	26/53	1/99	1/99	1/99	40/83	1/99	1/99	29/63
50	2/5		37/88		26/59		27/61		4/9		4/9		4/9		44/97		11/24		34/73		12/25		37/77		38/79		13/27		13/27		13/27		13/28		13/28		41/90		13/29		13/29		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	11/28	1/99	12/29	38/79	13/30	1/99	14/31	29/63	43/98	27/65	5/11	33/71	8/17	10/23	5/11	31/71	17/36	33/73	16/37	40/93	26/55	5/11	19/43	25/59	14/31	5/11	4/9	36/83	19/42	8/17	41/90	1/99	5/11	42/89	22/47	1/99	5/11	26/55	23/49	43/95	1/99	5/11	47/98	5/11	1/99	1/99	25/51	38/91	1/99	1/99	26/53	1/99	1/99	1/99	27/55	1/99	1/99	1/99	41/85	1/99
52	28/71		25/59		26/61		39/89		6/13		31/67		32/69		13/28		13/28		25/56		19/43		1/99		1/99		1/99		1/99		1/99		39/89		6/13		43/93		44/95		45/97		5/11		13/28		25/56		1/99		1/99		1/99		1/99		1/99		1/99	
53	23/58	1/99	31/73	40/83	3/7	1/99	7/16	6/13	5/11	28/67	13/29	26/57	36/79	31/71	17/36	32/73	10/23	34/75	9/19	3/7	17/39	36/79	9/19	34/81	4/9	41/92	4/9	37/85	21/47	40/87	5/11	1/99	43/94	43/91	41/92	1/99	23/49	9/19	7/16	44/97	8/17	9/19	1/99	41/90	37/77	38/87	1/99	3/7	26/53	1/99	1/99	1/99	27/55	1/99	1/99	1/99	28/57	1/99	1/99	1/99
54	23/59		40/97		4/9		29/65		30/67		13/29		13/29		34/77		33/73		6/13		37/79		13/27		40/83		41/85		14/29		14/29		14/29		27/58		13/29		42/97		4/9		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
55	2/5	1/99	13/31	41/85	7/16	1/99	5/11	31/67	37/84	29/69	16/35	32/71	11/24	32/73	35/78	11/25	9/19	5/11	1/99	34/79	46/97	37/81	18/41	35/83	41/90	35/78	21/47	38/87	5/11	40/89	22/49	1/99	21/46	44/93	45/98	1/99	25/56	46/97	8/17	1/99	1/99	41/90	25/53	26/57	1/99	39/89	38/79	35/78	1/99	1/99	27/55	1/99	1/99	1/99	28/57	1/99	1/99	1/99	29/59	1/99
56	24/61		3/7		28/65		18/41		31/69		33/71		34/73		7/15		7/15		7/15		35/78		1/99		1/99		1/99		1/99		1/99		1/99		1/99		44/97		46/99		27/58		41/88		7/15		35/78		25/58		1/99		1/99		1/99		1/99		1/99	
57	23/59	1/99	37/89	31/65	23/54	1/99	15/34	32/69	16/35	30/71	23/52	33/73	11/24	11/25	9/19	34/77	38/87	35/79	19/40	35/81	1/99	38/83	41/88	36/85	1/99	39/85	26/57	38/89	22/49	41/92	21/46	1/99	23/51	9/19	11/24	1/99	41/89	47/99	11/25	1/99	25/53	41/88	1/99	16/35	26/55	29/66	1/99	39/85	40/83	1/99	1/99	31/73	28/57	1/99	1/99	1/99	29/59	1/99	1/99	1/99
58	9/23		5/16		29/67		31/69		32/71		23/51		14/31		4/9		37/83		41/90		38/83		8/17		14/29		43/89		44/91		15/31		9/19		45/97		5/11		41/92		38/87		3/7		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
59	25/64	1/99	14/33	32/67	15/34	1/99	31/70	33/71	4/9	31/73	17/37	34/75	44/97	34/77	23/50	35/79	19/40	4/9	1/99	36/83	10/21	39/85	1/99	37/87	10/21	23/50	1/99	3/7	40/89	17/38	23/51	1/99	11/24	45/97	24/53	1/99	23/50	29/61	43/93	1/99	23/52	10/21	26/55	1/99	1/99	40/89	9/19	1/99	1/99	27/61	41/85	1/99	1/99	1/99	29/59	1/99	1/99	1/99	30/61	1/99
60	2/5		28/67		10/23		31/71		25/56		7/15		36/77		37/79		22/47		43/94		22/49		22/49		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		7/15		43/92		29/62		37/79		29/63		43/97		17/39		1/99		1/99		1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{2, 2+k, 2+k+i\}$.

k \ i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	3/8	1/3	3/10	1/3	5/13	3/7	3/7	2/5	3/8	6/17	7/19	2/5	3/7	3/7	9/22	9/23	3/8	5/13	11/27	3/7
2	1/3		4/13		1/3		3/8		7/19		8/21		9/23		2/5		11/27		12/29	
3	1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3
4	2/5		4/13		2/5		1/3		7/19		2/5		10/27		2/5		12/31		13/33	
5	7/17	4/11	6/19	2/5	7/16	5/11	9/23	1/3	2/5	3/7	5/11	3/7	11/29	2/5	11/26	4/9	5/11	7/17	2/5	13/31
6	8/19				10/23		11/25				13/29		14/31				16/35		17/37	
7	3/7	5/13	5/16	5/13	2/5	6/13	9/20	3/7	11/29	1/3	12/31	7/16	6/13	4/9	3/7	7/18	5/13	8/19	6/13	5/11
8	2/5		8/25		10/27		3/7		9/23		1/3		3/7		12/29		12/31		16/41	
9	2/5	2/5		2/5	2/5		2/5	9/23		2/5	2/5		11/28	2/5		2/5	2/5		2/5	2/5
10	11/27		6/19		3/7		3/8		2/5		7/16		1/3		13/31		18/43		2/5	
11	12/29	7/17	10/31	7/17	5/11	8/17	2/5	7/18	5/13	8/19	13/28	9/20	2/5	1/3	13/32	5/11	8/17	10/23	7/17	14/37
12	13/31				3/7		16/37				18/41		19/43				21/47		22/49	
13	14/33	8/19	7/22	8/19	15/37	9/19	6/13	2/5	11/28	8/21	2/5	5/11	15/32	10/23	7/17	1/3	5/12	11/25	9/19	6/13
14	3/7		12/37		2/5		4/9		11/29		2/5		9/20		3/7		1/3		23/53	
15	9/22	3/7		3/7	11/26		3/7	12/29		13/31	3/7		3/7	3/7		3/7	8/19		17/40	3/7
16	16/39		8/25		4/9		9/22		12/31		5/11		20/51		22/53		5/11		1/3	
17	17/41	10/23	14/43	10/23	4/9	11/23	19/47	5/12	19/49	2/5	8/17	6/13	5/12	9/23	8/19	3/7	19/40	13/29	3/7	1/3
18	18/43				20/47		3/7				23/53		24/55				26/59		27/61	
19	19/45	11/25	9/28	11/25	20/49	12/25	23/51	11/26	13/34	11/27	2/5	13/28	9/19	12/29	17/40	2/5	3/7	14/31	21/44	7/16
20	20/47		16/49		13/31		5/11		2/5		11/26		6/13		17/41		5/13		6/13	
21	3/7	4/9		4/9	7/16		15/34	3/7		16/37	4/9		4/9	18/41		19/43	19/44		10/23	4/9
22	12/29		10/31		5/11		3/7		23/59		6/13		3/7		18/43		13/28		11/28	
23	22/53	13/29	18/55	13/29	25/57	14/29	12/29	13/30	15/38	13/31	29/63	15/32	2/5	12/29	28/67	7/17	11/23	16/35	7/16	7/18
24	23/55				25/59		26/61				28/65		29/67				31/71		32/73	
25	8/19	14/31	11/34	14/31	5/12	15/31	4/9	7/16	2/5	14/33	13/31	8/17	32/69	2/5	19/46	13/31	31/73	17/37	12/25	8/19
26	25/59		20/61		16/37		6/13		16/41		7/16		7/15		20/47		31/75		15/32	
27	26/61	5/11		5/11	17/38		9/20	15/34		3/7	5/11		5/11	21/47		22/49	5/11		35/79	24/53
28	3/7		12/37		30/67		18/41		17/43		7/15		15/34		3/7		8/17		7/17	
29	5/12	16/35	22/67	16/35	10/23	17/35	3/7	4/9	17/44	16/37	34/75	9/19	3/7	3/7	21/50	2/5	38/81	19/41	35/83	3/7
30	28/67				30/71		31/73				3/7		34/79				36/83		37/85	
31	29/69	17/37	13/40	17/37	3/7	18/37	11/25	17/38	9/23	17/39	16/37	19/40	37/81	17/41	11/26	16/37	2/5	20/43	41/87	8/19
32	30/71		24/73		19/43		5/11		31/79		17/38		8/17		22/53		38/87		9/19	
33	31/73	6/13		6/13	5/11		21/46	9/20		18/41	23/50		6/13	19/43		5/11	6/13		6/13	27/59
34	32/75		14/43		35/79		21/47		19/49		8/17		9/20		23/55		9/19		40/93	
35	3/7	19/41	7/22	19/41	35/81	20/41	7/16	19/42	2/5	19/43	13/29	21/44	18/41	24/55	3/7	17/41	43/93	22/47	2/5	18/41
36	18/43				20/47		3/7				3/7		3/7				41/95		42/97	
37	34/81	20/43	15/46	20/43	7/16	21/43	38/87	5/11	35/89	4/9	19/43	11/23	14/31	20/47	8/19	26/59	41/97	23/49	46/99	1/99
38	35/83		15/47		22/49		40/89		21/53		5/11		9/19		25/59		5/11		10/21	
39	36/85	7/15		7/15	40/89		6/13	21/46		21/47	13/28		27/58	3/7		11/25	7/15		7/15	6/13
40	37/87		1/99		40/91		24/53		2/5		45/97		21/46		26/61		10/21		30/67	
41	38/89	22/47	1/99	22/47	40/93	21/44	4/9	11/24	11/28	22/49	4/9	22/47	21/47	27/61	13/31	20/47	16/35	25/53	12/29	21/47
42	3/7				23/53		24/55				7/16		7/16				28/65		29/67	
43	21/50	23/49	1/99	23/49	4/9	11/23	43/99	23/50	23/58	23/51	22/49	23/49	30/67	3/7	27/64	29/65	3/7	22/49	17/37	3/7
44	8/19		1/99		5/11		41/92		1/99		28/61		43/92		27/65		23/50		11/23	
45	41/97	8/17		8/17	32/73		26/57	6/13		22/51	29/62		15/32	24/55		27/67	8/17		8/17	31/71
46	14/33		1/99		3/7		27/59		1/99		39/86		6/13		28/67		11/23		6/13	
47	23/54	25/53	1/99	8/17	25/58	12/25	9/20	23/52	1/99	3/7	33/76	6/13	33/73	30/67	29/68	23/53	17/38	32/71	37/86	33/73
48	41/96				26/59		27/61				4/9		4/9				1/99		1/99	
49	3/7	26/55	1/99	26/57	9/20	25/52	27/62	4/9	1/99	8/19	5/11	31/67	7/16	10/23	3/7	32/71	5/11	33/73	9/20	8/19
50	8/19		1/99		27/61		10/23		1/99		31/67		43/94		30/71		13/28		12/25	
51	32/77	9/19		27/59	7/16		37/83	3/7		28/67	8/17		33/70	21/50		37/88	35/74		9/19	7/16
52	36/85		1/99		10/23		6/13		1/99		11/25		33/71		1/99		7/15		26/57	
53	31/73	28/59	1/99	28/61	7/16	31/65	5/11	28/65	1/99	10/23	11/25	33/71	16/35	32/73	1/99	11/25	39/88	5/11	37/85	36/79
54	37/88				29/65		30/67				22/49		9/20				35/82		1/99	
55	13/31	29/61	1/99	29/63	5/11	32/67	15/34	29/67	1/99	29/69	11/24	34/73	42/95	11/25	1/99	5/11	37/83	36/79	41/92	17/41
56	3/7		1/99		42/95		11/25		1/99		34/73		24/53		1/99		43/92		38/81	
57	27/64	10/21		6/13	3/7		4/9	10/23		31/73	17/37		9/19	3/7		31/79	19/40		39/82	1/99
58	23/55		1/99		10/23		32/71		1/99		4/9		36/77		1/99		32/69		15/32	
59	33/79	31/65	1/99	31/67	31/70	34/71	11/24	31/71	1/99	32/75	41/92	36/77	6/13	10/23	1/99	1/99	1/99	38/83	6/13	39/85
60	12/29				32/71		33/73				5/11		5/11				5/11		1/99	

k \ i	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	3/7	12/29	2/5	12/31	13/33	7/17	3/7	3/7	5/12	15/37	15/38	2/5	17/41	3/7	3/7	18/43	9/22	2/5	19/47	5/12
2	13/31		14/33		3/7		16/37		17/39		18/41		19/43		4/9		21/47		22/49	
3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3
4	2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53	
5	7/16	5/11	17/39	2/5	5/12	16/37	17/38	5/11	19/45	17/41	3/7	19/43	5/11	11/25	19/46	20/47	7/16	22/49	5/11	3/7
6			19/41		20/43				22/47		23/49				25/53		26/55			
7	15/34	3/7	17/43	9/22	4/9	6/13	9/20	18/41	3/7	2/5	22/51	6/13	21/46	21/47	7/16	3/7	8/19	13/29	6/13	24/53
8	3/7		15/37		5/13		3/7		18/43		2/5		2/5		3/7		7/17		25/61	
9		2/5	15/38		2/5	2/5		17/43	2/5		2/5	2/5		2/5	2/5		2/5	21/53		2/5
10	16/37		19/49		17/41		7/16		2/5		20/47		25/59		7/17		23/53		2/5	
11	3/7	6/13	8/17	11/26	21/53	11/27	5/11	7/15	26/57	12/29	23/59	13/30	23/50	8/17	4/9	7/17	27/65	5/11	13/28	8/17
12			24/53		5/11				27/59		28/61				6/13		31/67			
13	8/19	16/41	8/19	3/7	9/19	7/15	26/59	19/47	24/61	13/31	29/63	8/17	6/13	14/33	7/18	23/55	31/69	9/19	27/58	4/9
14	18/41		22/57		24/59		21/47		3/7		2/5		9/20		24/55		28/71		32/73	
15		18/43	3/7		3/7	20/47		3/7	21/50		11/26	3/7		3/7	3/7		3/7	25/59		26/61
16	19/43		26/61		18/47		22/49		9/22		29/69		5/11		29/73		26/59		5/11	
17	19/44	14/31	11/23	7/16	10/23	13/33	10/23	8/17	11/23	3/7	30/71	23/55	32/73	9/19	7/15	25/59	9/23	26/61	36/79	10/21
18			29/65		30/67				32/71		33/73				5/11		36/79			
19	10/23	1/3	7/16	15/34	12/25	16/35	11/25	7/18	11/25	16/37	12/25	9/19	3/7	25/59	33/79	26/61	38/81	10/21	37/83	28/65
20	29/67		1/3		31/71		24/53		2/5		8/19		27/59		25/61		11/26		6/13	
21		4/9	11/25		23/52	23/53		24/55	4/9		4/9	26/59		27/61	27/62		7/16	4/9		4/9
22	3/7		33/73		1/3		5/11		34/79		32/81		28/61		3/7		27/65		31/67	
23	11/25	16/37	25/52	17/38	4/9	1/3	25/56	9/20	14/29	18/41	13/29	24/61	13/29	20/43	14/29	19/44	39/89	19/45	3/7	11/23
24			34/77		35/79				37/83		38/85				40/89		41/91			
25	23/52	12/31	4/9	9/20	27/56	18/41	13/29	1/99	9/20	19/43	15/31	5/11	14/31	2/5	14/31	10/23	15/31	22/47	42/95	5/12
26	23/53		32/81		38/83		7/16		1/99		39/89		6/13		26/67		10/23		33/71	
27		5/11	25/56		13/29	5/11		5/11	14/31		29/64	29/65		30/67	5/11		5/11	32/71		33/73
28	24/55		8/17		34/87		15/34		41/91		1/99		43/95		10/23		1/99		34/73	
29	37/85	8/19	14/29	5/11	9/20	2/5	14/31	10/23	31/64	21/47	5/11	1/99	31/68	22/49	17/35	11/25	16/35	1/99	16/35	34/75
30			39/89		40/91				42/95		43/97				42/95		43/97			
31	25/58	19/45	40/91	21/46	15/31	3/7	29/64	31/81	5/11	22/49	33/68	11/25	16/35	1/99	11/24	3/7	18/37	4/9	17/37	1/99
32	26/59		8/19		9/19		29/65		1/99		37/82		17/38		1/99		11/25		5/11	
33		28/61	42/95		43/97	6/13		6/13	31/68		16/35	6/13		42/95	17/37		35/76	5/11		36/79
34	27/61		19/40		17/40		30/67		39/86		1/99		9/20		19/43		1/99		43/96	
35	27/62	3/7	47/99	23/50	27/62	17/41	25/56	10/23	17/35	11/25	11/24	1/99	17/37	18/41	37/76	23/53	6/13	1/99	37/80	13/29
36			27/62		38/87				41/95		42/97				29/66		38/87			
37	7/16	19/43	38/91	29/67	10/21	10/23	19/43	5/12	40/89	3/7	18/37	11/25	35/76	1/99	6/13	11/26	39/80	19/43	19/41	1/99
38	38/87		19/44		21/44		32/71		37/90		43/94		5/11		1/99		21/47		5/11	
39		31/67	4/9		34/77	33/71		34/73	33/76		17/38	7/15		7/15	37/80		19/41	40/89		29/66
40	29/67		11/23		10/23		33/73		11/23		1/99		36/79		45/98		1/99		21/46	
41	15/34	1/99	35/76	11/25	1/99	20/47	33/74	11/25	9/19	23/53	7/16	1/99	9/20	4/9	20/41	3/7	13/28	1/99	20/43	21/47
42			31/71		7/16				7/16		34/79				1/99		1/99			
43	31/70	22/49	1/99	32/73	37/80	1/99	17/38	3/7	1/99	34/79	19/40	4/9	22/49	1/99	19/42	36/85	21/43	13/29	41/88	1/99
44	31/71		32/73		12/25		5/11		11/25		12/25		38/83		1/99		43/93		23/50	
45		33/73	8/17		23/51	36/77		37/79	40/91		3/7	39/83		8/17	39/88		5/11	8/17		8/17
46	32/73		12/25		34/77		35/79		25/52		35/83		39/85		13/29		1/99		6/13	
47	16/37	1/99	19/41	34/77	1/99	19/43	9/20	1/99	41/88	36/83	1/99	1/99	14/31	13/29	21/44	38/89	41/92	1/99	21/46	14/31
48			34/77		35/79				1/99		1/99				1/99		1/99			
49	33/76	5/11	1/99	35/79	20/43	1/99	37/82	5/11	1/99	37/85	43/92	1/99	5/11	1/99	1/99	3/7	11/23	14/31	5/11	1/99
50	34/77		41/92		13/27		37/83		37/83		27/56		41/89		1/99		14/31		44/95	
51		7/16	45/97		9/19	38/83		8/17	44/97		41/92	42/89		43/91	1/99		1/99	9/19		45/97
52	35/79		13/27		37/83		38/85		14/29		13/29		6/13		43/93		1/99		45/97	
53	7/16	1/99	5/11	37/83	1/99	16/35	39/86	1/99	22/47	39/89	1/99	1/99	21/46	1/99	39/83	41/95	1/99	1/99	16/35	5/11
54			1/99		1/99				1/99		1/99				1/99		1/99			
55	18/41	38/83	1/99	38/85	21/46	1/99	5/11	21/47	1/99	40/91	23/49	1/99	43/94	1/99	1/99	42/97	41/87	1/99	41/91	1/99
56	1/99		43/96		14/29		40/89		41/91		15/31		14/31		1/99		46/99		27/58	
57		1/99	39/82		43/92	39/89		41/91	25/56		38/83	9/19		46/97	1/99		1/99	29/61		39/82
58	1/99		14/29		40/89		41/91		15/31		43/95		43/95		47/99		1/99		41/88	
59	19/43	1/99	9/20	40/89	1/99	6/13	41/92	1/99	23/50	42/95	1/99	6/13	45/98	1/99	25/53	27/62	1/99	1/99	6/13	1/99
60			1/99		1/99				1/99		1/99				1/99		1/99			

k \ i	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	3/7	3/7	21/50	7/17	21/52	11/27	23/55	3/7	3/7	8/19	12/29	24/59	25/61	13/31	3/7	3/7	27/64	27/65	9/22	7/17
2	23/51		24/53		5/11		26/57		27/59		28/61		29/63		6/13		31/67		32/69	
3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3		1/3	1/3	
4	24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
5	11/26	23/53	4/9	5/11	27/61	8/19	25/58	26/59	9/20	5/11	29/67	3/7	7/16	29/65	5/11	4/9	29/68	10/23	31/70	32/71
6	28/59		29/61				31/65		32/67				34/71		35/73				37/77	
7	4/9	24/55	3/7	7/16	6/13	27/59	9/20	27/61	27/62	3/7	32/71	6/13	5/11	30/67	15/34	10/23	34/77	6/13	11/24	33/73
8	3/7		8/19		28/67		29/69		3/7		31/73		32/75		3/7		34/79		35/81	
9	2/5		23/58	2/5		2/5	2/5		2/5	2/5		2/5	27/68		2/5	2/5		29/73	2/5	
10	8/19		7/16		25/61		3/7		32/75		28/67		10/23		34/81		31/73		7/16	
11	10/23	2/5	31/71	28/61	29/62	17/37	32/75	8/19	5/11	31/67	8/17	9/20	34/81	18/41	11/24	34/73	8/17	19/43	37/87	5/11
12	33/71		34/73				36/77		37/79				39/83		8/17				42/89	
13	30/73	8/19	11/25	9/19	15/32	6/13	34/79	2/5	35/81	19/41	33/70	33/71	38/85	18/43	37/87	5/11	9/19	36/77	6/13	10/23
14	27/61		3/7		33/79		30/67		10/23		2/5		9/20		11/25		3/7		41/93	
15	3/7		27/64	3/7		3/7	29/68		3/7	30/71		31/73	3/7		3/7	3/7		3/7	17/40	
16	31/79		29/65		36/83		36/85		32/71		37/89		11/25		5/11		37/93		4/9	
17	37/81	28/65	33/83	29/67	8/17	11/23	13/29	10/23	5/12	4/9	35/74	11/23	41/93	20/47	11/26	11/24	19/40	23/49	43/99	1/99
18	38/83		39/85				41/89		6/13				44/95		45/97				27/58	
19	2/5	29/67	40/87	11/23	41/89	31/71	7/18	32/73	14/31	12/25	9/19	11/25	11/26	11/25	17/40	12/25	39/82	23/51	3/7	11/26
20	38/87		35/89		6/13		33/73		1/99		43/97		36/79		37/89		19/45		39/85	
21	15/34		31/70	31/71		32/73	4/9		4/9	34/77		35/79	7/16		18/41	4/9		4/9	19/43	
22	3/7		40/93		13/28		1/99		5/11		41/90		1/99		38/83		41/96		1/99	
23	44/93	31/71	12/29	32/73	43/97	12/25	46/99	34/77	1/99	35/79	9/20	13/27	16/35	37/83	1/99	38/85	29/62	14/29	41/91	13/29
24	43/95		44/97				41/90		44/97				41/90		26/57				38/83	
25	42/97	3/7	47/99	12/25	27/62	34/77	9/22	35/79	7/15	13/27	18/41	37/83	1/99	38/85	19/43	14/29	5/11	40/89	1/99	41/91
26	31/73		7/16		36/77		34/79		32/79		15/32		43/98		1/99		23/51		6/13	
27	33/74		17/38	5/11		5/11	9/20		37/82	5/11		38/85	39/86		5/11	40/89		41/91	5/11	
28	11/25		3/7		37/79		41/95		36/83		8/17		1/99		39/89		41/91		1/99	
29	9/19	3/7	11/26	1/99	18/43	38/81	19/41	3/7	3/7	37/85	10/23	14/29	5/11	40/89	1/99	41/91	43/98	15/31	21/47	43/95
30	42/95		43/97				42/95		43/97				42/95		43/97				42/95	
31	17/38	34/79	19/40	37/81	17/40	1/99	3/7	41/95	20/43	41/87	1/99	1/99	1/99	40/91	21/46	15/31	11/25	43/95	1/99	44/97
32	1/99		4/9		39/83		1/99		38/87		42/89		40/91		1/99		9/19		43/97	
33	6/13		9/20	38/83		39/85	19/43		5/11	41/89		6/13	21/46		43/94	24/53		6/13	45/98	
34	4/9		1/99		8/17		13/29		1/99		43/91		9/20		42/95		46/97		1/99	
35	20/41	36/83	19/41	1/99	19/42	14/31	21/44	39/89	13/30	1/99	19/45	43/93	22/47	1/99	1/99	1/99	1/99	47/99	23/50	1/99
36	27/61		37/84				27/62		38/87				41/95		38/87				27/62	
37	13/28	37/85	21/43	14/31	20/43	1/99	5/11	40/91	11/23	5/11	10/23	1/99	7/16	1/99	23/49	46/99	1/99	1/99	1/99	1/99
38	1/99		13/29		40/89		1/99		14/31		9/19		1/99		5/11		29/61		1/99	
39	20/43		41/88	40/89		6/13	7/15		21/46	44/95		45/97	7/16		11/25	27/58		41/88	6/13	
40	23/52		1/99		40/91		14/31		1/99		45/97		5/11		1/99		39/82		30/67	
41	43/88	38/89	7/15	1/99	43/92	4/9	23/47	1/99	22/47	1/99	11/24	16/35	12/25	1/99	15/34	1/99	1/99	17/37	25/53	1/99
42	7/16		3/7				1/99		1/99				1/99		1/99				1/99	
43	7/15	3/7	45/92	22/49	22/47	1/99	15/32	1/99	24/49	30/67	23/49	1/99	23/50	1/99	25/52	17/37	23/52	1/99	1/99	1/99
44	1/99		23/53		11/25		1/99		5/11		41/92		1/99		16/35		43/92		1/99	
45	43/92		22/47	4/9		4/9	23/49		39/83	41/92		26/57	8/17		6/13	43/92		29/62	4/9	
46	40/93		1/99		6/13		1/99		1/99		1/99		16/35		1/99		39/85		17/37	
47	23/47	41/95	15/32	1/99	23/49	1/99	25/51	1/99	8/17	1/99	41/87	1/99	26/53	1/99	25/53	1/99	25/54	1/99	27/56	1/99
48	1/99		1/99				1/99		1/99				1/99		1/99				1/99	
49	11/24	1/99	24/49	5/11	39/83	1/99	8/17	1/99	26/53	1/99	25/53	1/99	17/36	1/99	27/55	1/99	26/55	1/99	13/28	1/99
50	1/99		43/99		41/92		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	9/20		23/50	41/92		38/87	41/87		25/53	37/88		1/99	26/55		44/93	1/99		33/73	9/19	
52	4/9		1/99		26/57		3/7		1/99		27/64		1/99		1/99		1/99		1/99	
53	12/25	1/99	1/99	1/99	6/13	16/35	26/53	1/99	17/36	1/99	26/55	1/99	28/57	1/99	9/19	1/99	46/97	1/99	29/59	1/99
54	1/99		1/99				1/99		1/99				1/99		1/99				1/99	
55	1/99	1/99	25/52	1/99	44/97	1/99	25/54	1/99	27/55	1/99	44/93	1/99	9/19	1/99	29/59	1/99	28/59	1/99	19/40	1/99
56	1/99		30/67		43/92		1/99		16/37		27/61		1/99		1/99		1/99		1/99	
57	1/99		1/99	43/92		39/85	1/99		13/28	27/61		10/23	46/97		28/59	1/99		1/99	29/61	
58	16/35		1/99		29/62		34/77		1/99		33/73		1/99		1/99		1/99		1/99	
59	44/93	1/99	1/99	1/99	6/13	1/99	27/56	1/99	1/99	1/99	27/58	1/99	29/59	1/99	19/40	1/99	19/40	1/99	31/63	1/99
60	1/99		1/99				1/99		1/99				1/99		1/99				1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{3, 3+k, 3+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	2/5	4/11	1/3	4/13	1/3	3/8	7/17	4/9	4/9	8/19	2/5	8/21	4/11	3/8	2/5	11/26	4/9	4/9	3/7	12/29	2/5	12/31	13/33	7/17	3/7	4/9	4/9	16/37	8/19	16/39	2/5	17/42	18/43	19/44	4/9	4/9	10/23	20/47	5/12	20/49	7/17	11/26	23/53	4/9	4/9	24/55	3/7	8/19	12/29	5/12	26/61	27/62	4/9	4/9	7/16	28/65	14/33	28/67	29/69	3/7
2	4/11		2/5		2/5		7/19		2/5		8/21		2/5		2/5		11/29		2/5		12/31		2/5		2/5		5/13		2/5		16/41		2/5		2/5		19/49		2/5		20/51		2/5		2/5		23/59		2/5		24/61		2/5		2/5		9/23		2/5	
3	1/3	3/8	3/7	1/3	8/19	7/17	1/3	5/11	2/5	3/8	5/11	9/23	11/27	11/25	5/13	13/30	3/7	11/29	5/11	13/31	2/5	5/11	7/17	8/19	4/9	15/37	18/41	17/39	2/5	5/11	3/7	19/46	5/11	19/45	3/7	21/47	5/12	23/52	11/25	7/17	5/11	23/53	8/19	5/11	3/7	13/30	13/29	25/59	4/9	27/61	13/31	5/11	7/16	29/68	5/11	29/67	31/71	31/69	3/7	33/74
4	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
5	5/13	2/5	3/7	7/22	4/9	3/8	2/5	6/13	1/3	10/23	12/29	2/5	6/13	5/13	3/7	15/34	2/5	14/31	15/37	14/33	6/13	2/5	4/9	3/7	8/19	6/13	2/5	18/41	21/47	18/43	5/11	21/50	10/23	6/13	5/12	22/49	24/55	22/51	6/13	22/53	4/9	9/20	3/7	26/57	3/7	26/59	6/13	26/61	14/31	15/34	7/16	6/13	14/33	30/67	33/73	10/23	16/35	33/76	4/9	6/13
6	3/7		7/17		2/5		3/7		9/23		3/7		11/27		3/7		13/31		16/39		3/7		15/37		3/7		17/41		3/7		19/45		22/53		3/7		7/17		3/7		23/55		3/7		25/59		28/67		3/7		27/65		3/7		29/69		3/7		31/73	
7	10/23	3/8	2/5	6/19	2/5	3/7	5/11	7/15	13/31	2/5	1/3	13/34	3/7	13/29	7/15	17/38	16/39	2/5	16/41	3/7	4/9	17/37	7/15	10/23	19/47	19/48	3/7	19/43	5/11	7/15	24/53	23/54	2/5	3/7	11/25	23/51	6/13	7/15	27/61	13/31	3/7	25/57	13/29	27/59	7/15	31/68	10/23	3/7	7/16	29/65	5/11	31/67	7/15	17/38	3/7	31/71	4/9	33/73	17/37	7/15
8	11/25		4/9		13/29		14/31		5/11		16/35		17/37		6/13		19/41		20/43		7/15		22/47		23/49		8/17		25/53		26/55		9/19		28/59		29/61		10/21		31/65		32/67		11/23		34/71		35/73		12/25		37/77		38/79		13/27		40/83	
9	4/9	11/28	2/5	1/3	12/31	9/23	14/33	8/17	6/13	4/9	7/17	11/29	1/3	7/17	17/41	19/42	8/17	16/35	4/9	19/46	18/47	19/48	20/49	11/25	8/17	20/43	5/11	4/9	23/55	11/28	7/17	25/58	27/59	8/17	6/13	24/53	4/9	27/64	2/5	14/33	30/67	8/17	7/15	28/61	14/31	4/9	31/73	31/74	11/25	35/76	8/17	32/69	16/35	32/71	4/9	35/82	36/83	19/42	8/17	36/77
10	8/19		13/31		10/23		2/5		4/9		12/29		4/9		14/33		4/9		16/37		3/7		18/41		18/43		4/9		20/47		4/9		22/51		4/9		24/55		29/67		26/59		26/61		4/9		28/65		4/9		10/23		4/9		32/73		37/85		34/77	
11	2/5	8/21	5/11	11/34	3/7	5/12	14/37	9/19	8/19	12/29	7/15	12/31	18/43	5/11	1/3	21/46	20/47	8/19	9/19	16/39	7/17	19/41	8/21	4/9	5/11	11/28	9/19	25/58	5/12	23/49	25/61	27/62	6/13	25/64	6/13	5/11	8/19	9/19	10/23	3/7	7/15	5/12	33/73	29/63	2/5	9/19	5/11	11/26	8/17	7/16	4/9	33/71	35/83	13/28	17/37	8/19	9/19	5/11	39/89	37/79
12	2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5		2/5	
13	3/7	7/18	16/37	8/25	6/13	11/27	3/7	10/21	8/21	19/44	19/45	13/33	8/17	3/7	3/7	23/50	1/3	6/13	22/53	17/41	10/21	3/7	25/57	13/29	9/23	22/47	5/12	3/7	10/21	25/64	6/13	29/66	11/27	26/55	3/7	31/70	33/71	23/59	7/15	16/37	32/75	10/21	3/7	6/13	36/79	33/80	8/17	35/82	37/83	10/21	2/5	34/73	13/29	19/44	9/19	3/7	6/13	43/92	13/31	38/81
14	16/37		11/25		17/41		13/29		2/5		5/11		3/7		5/11		17/39		5/11		19/43		26/59		21/47		3/7		23/51		23/53		5/11		25/57		5/11		27/61		5/11		29/65		4/9		31/69		31/71		33/73		11/25		5/11		35/79		5/11	
15	17/39	2/5	17/41	1/3	3/7	9/22	7/15	11/23	20/47	14/33	9/23	2/5	10/23	23/52	9/19	25/54	23/55	10/23	1/3	18/43	25/59	7/15	11/23	14/31	5/12	27/64	2/5	22/51	30/67	25/53	11/23	31/70	3/7	9/23	12/29	10/23	7/15	29/61	36/77	17/39	10/23	2/5	14/33	37/82	8/17	11/23	39/85	37/86	37/87	30/73	39/89	7/15	9/19	11/23	14/31	34/79	2/5	41/96	44/97	39/83
16	18/41		19/43		4/9		21/47		22/49		23/51		24/53		5/11		26/57		27/59		28/61		29/63		6/13		31/67		32/69		33/71		34/73		7/15		36/77		37/79		38/81		39/83		8/17		41/87		42/89		43/91		44/93		41/87		46/97		47/99	
17	19/43	17/44	3/7	15/46	19/47	13/31	3/7	12/25	8/17	11/26	11/25	7/18	2/5	17/39	8/19	27/58	10/21	9/20	26/61	19/45	1/3	11/25	5/12	5/11	12/25	8/17	10/23	23/53	28/71	5/12	3/7	33/74	12/25	28/59	5/11	11/25	13/31	2/5	7/16	18/41	39/83	32/67	8/17	19/43	3/7	35/88	11/25	13/30	6/13	12/25	9/19	43/94	17/39	33/79	41/97	35/81	5/11	12/25	10/21	8/17
18	4/9		20/47		14/31		7/17		16/35		2/5		6/13		25/59		6/13		4/9		6/13		22/49		31/69		24/53		32/73		26/57		3/7		28/61		4/9		6/13		30/67		6/13		32/71		6/13		34/75		43/95		36/79		4/9		38/83		38/85	
19	3/7	19/48	22/49	10/31	22/51	21/52	11/27	13/27	4/9	16/37	9/19	5/13	25/59	13/30	24/61	29/62	4/9	4/9	11/23	20/47	28/67	31/68	1/3	16/35	30/71	4/9	13/27	24/55	3/7	9/19	30/77	35/78	35/79	33/80	13/27	4/9	7/16	31/65	14/33	19/43	40/87	35/88	42/89	4/9	4/9	35/73	16/37	41/94	9/19	1/99	45/97	22/49	4/9	13/27	18/41	36/83	10/21	36/85	16/35	43/93
20	3/7		13/31		14/33		3/7		3/7		3/7		3/7		3/7		19/45		20/47		3/7		3/7		3/7		3/7		3/7		25/59		26/61		3/7		3/7		3/7		3/7		3/7		31/73		32/75		3/7		3/7		3/7		3/7		3/7		37/87	
21	22/51	12/31	23/53	1/3	5/11	3/7	4/9	14/29	12/29	5/12	26/61	16/41	10/21	19/43	13/29	31/66	26/67	15/34	29/69	3/7	12/25	13/29	31/73	17/37	1/3	35/76	3/7	25/57	14/29	7/16	35/81	37/82	12/31	10/21	7/16	29/65	14/29	12/29	40/89	4/9	3/7	34/71	4/9	13/29	9/19	1/99	45/97	43/98	17/39	38/79	13/29	35/81	41/88	1/99	10/21	37/85	19/43	14/29	37/84	5/11
22	23/53		5/11		8/19		17/37		25/61		19/41		2/5		7/15		29/69		7/15		32/73		7/15		5/11		36/79		27/59		37/83		29/63		38/87		31/67		3/7		33/71		42/95		7/15		5/11		7/15		37/81		7/15		39/85		39/85		41/89	
23	24/55	11/28	8/19	19/58	4/9	15/37	28/61	15/31	3/7	18/41	13/31	17/43	14/31	29/68	11/23	33/70	30/71	22/49	12/31	31/74	11/25	17/38	13/27	6/13	13/31	14/31	1/99	26/59	35/83	13/28	15/31	39/86	7/16	19/44	13/33	30/67	40/91	11/23	15/31	21/47	4/9	33/79	41/97	14/31	5/11	37/77	29/61	20/47	9/20	1/99	18/41	43/97	43/92	41/85	29/62	38/87	14/31	1/99	4/9	17/38
24	25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73		34/75		5/11		36/79		37/81		38/83		39/85		40/87		41/89		6/13		43/93		44/95		45/97		46/99		27/58		41/88		7/15		43/92		29/62		41/88		7/15		43/92	
25	26/59	2/5	4/9	12/37	8/19	27/64	28/65	16/33	31/67	18/43	5/11	2/5	14/33	21/47	31/73	35/74	12/25	33/76	5/11	22/53	13/33	5/11	14/33	19/41	14/29	19/42	36/85	27/61	1/99	5/11	38/89	41/90	16/33	43/92	40/93	31/69	1/99	41/96	4/9	22/49	16/33	12/25	41/92	5/11	16/39	1/99	9/20	3/7	41/86	40/83	19/42	5/11	19/43	1/99	5/11	38/89	31/66	44/91	43/92	40/93
26	27/61		3/7		6/13		28/67		20/43		7/17		22/47		2/5		8/17		33/79		8/17		36/83		8/17		13/29		41/89		6/13		14/31		32/69		43/97		34/73		27/62		36/77		3/7		38/81		36/83		8/17		13/29		8/17		6/13		8/17	
27	4/9	25/64	29/65	1/3	29/67	17/41	3/7	17/35	5/11	4/9	34/73	29/74	32/75	3/7	3/7	37/78	16/35	24/53	13/27	23/55	3/7	37/84	2/5	20/43	38/87	16/35	15/31	4/9	3/7	21/46	1/99	43/94	8/19	43/96	17/35	32/71	4/9	39/83	1/99	23/51	38/87	3/7	37/78	36/79	9/20	13/27	1/99	41/92	37/84	1/99	43/90	16/35	5/11	43/89	4/9	3/7	21/46	1/99	43/94	36/83
28	16/37		17/39		18/41		19/43		4/9		4/9		4/9		4/9		4/9		24/55		25/57		26/59		27/61		4/9		4/9		4/9		4/9		4/9		32/73		11/25		34/77		35/79		4/9		4/9		4/9		4/9		4/9		40/91		41/93		42/95	
29	29/67	27/68	10/23	23/70	32/71	5/12	5/11	18/37	16/37	20/47	3/7	19/49	37/79	23/51	17/37	39/82	35/83	16/37	3/7	8/19	14/29	27/59	40/89	7/15	36/91	41/92	16/37	41/94	16/33	17/37	17/41	4/9	1/99	23/50	5/12	33/73	18/37	38/89	3/7	43/98	1/99	37/79	9/20	37/81	39/82	40/93	10/23	36/85	1/99	14/29	5/11	11/24	7/15	1/99	41/92	40/93	41/94	46/95	11/24	23/52
30	10/23		32/71		31/73		7/15		8/19		23/49		8/19		25/53		2/5		9/19		37/89		9/19		40/93		9/19		43/97		46/99		32/71		19/42		7/15		37/84		37/79		10/23		39/83		10/23		41/87		1/99		43/91		40/93		9/19		43/97	
31	31/71	16/41	3/7	14/43	5/11	19/45	5/11	19/39	34/79	7/16	17/39	20/51	6/13	23/53	8/17	41/86	3/7	26/57	37/89	25/59	6/13	17/39	15/31	22/47	17/39	6/13	1/99	29/67	43/99	9/20	17/35	41/89	37/89	6/13	1/99	34/75	8/19	5/11	19/39	15/34	7/16	43/99	1/99	38/83	10/23	8/17	41/86	37/87	5/11	1/99	1/99	6/13	11/25	15/31	22/47	41/95	11/24	1/99	1/99	6/13
32	32/73		11/25		34/77		35/79		4/9		37/83		38/85		13/29		40/89		41/91		14/31		43/95		44/97		5/11		41/90		26/57		44/97		5/11		41/90		26/57		16/35		38/83		14/31		26/57		16/35		38/83		41/90		26/57		16/35		38/83	
33	11/25	15/38	5/11	1/3	10/23	33/80	35/81	20/41	38/83	22/51	6/13	21/53	18/41	5/11	3/7	43/90	43/91	18/41	19/41	26/61	17/41	29/63	7/16	23/49	16/33	11/25	31/71	10/23	1/99	19/41	18/41	22/49	18/37	37/83	33/79	5/11	1/99	41/92	1/99	35/81	20/41	38/83	1/99	39/85	1/99	1/99	5/11	38/89	43/90	43/91	10/23	43/93	1/99	1/99	11/24	42/97	23/49	16/33	4/9	41/92
34	34/77		34/79		37/81		3/7		8/17		3/7		26/55		3/7		28/59		13/33		10/21		27/65		10/21		41/96		10/21		20/47		21/46		21/47		21/46		37/81		41/92		8/17		11/25		42/89		11/25		44/93		1/99		46/97		1/99		29/61	
35	35/79	2/5	4/9	15/47	36/83	3/7	11/25	21/43	6/13	19/44	41/89	2/5	3/7	25/57	19/43	45/94	20/43	28/61	46/97	3/7	7/16	19/43	18/43	8/17	26/57	32/69	17/35	31/71	19/43	4/9	1/99	23/51	20/47	20/43	19/39	35/79	1/99	40/89	1/99	41/92	1/99	38/87	21/43	40/87	19/44	41/89	1/99	3/7	1/99	41/93	45/94	44/95	11/24	46/97	1/99	43/99	1/99	1/99	8/17	13/28
36	4/9		21/47		22/49		23/51		24/53		5/11		5/11		5/11		5/11		5/11		29/65		30/67		31/69		32/71		33/73		34/75		5/11		5/11		5/11		5/11		5/11		13/29		40/89		41/91		14/31		43/95		44/97		5/11		24/53		5/11	
37	10/23	11/28	37/85	7/23	13/29	7/17	6/13	22/45	4/9	24/55	40/93	37/94	44/95	43/96	7/15	47/98	4/9	4/9	7/16	35/83	39/82	31/67	7/15	25/53	2/5	4/9	4/9	32/73	18/37	7/15	43/98	34/77	1/99	13/29	4/9	4/9	20/41	7/15	1/99	37/85	1/99	43/95	1/99	41/89	22/45	27/61	1/99	40/93	1/99	44/95	43/96	45/97	47/98	1/99	1/99	1/99	1/99	39/82	6/13	7/15
38	37/85		13/29		22/51		6/13		10/23		9/19		10/23		29/61		23/54		31/65		1/99		11/23		1/99		11/23		32/75		11/23		34/79		21/46		23/53		23/50		24/53		9/20		6/13		4/9		9/19		1/99		47/99		1/99		39/82		1/99	
39	38/87	35/88	11/25	1/99	6/13	39/92	14/31	41/86	41/95	41/96	21/47	23/59	7/15	27/61	16/35	22/47	7/16	6/13	20/47	28/67	22/47	21/47	31/65	41/89	4/9	34/73	26/71	11/25	4/9	37/85	19/39	35/79	21/47	22/47	1/99	37/83	1/99	14/31	21/43	38/87	1/99	21/47	1/99	6/13	1/99	41/90	23/47	41/95	1/99	1/99	1/99	46/99	1/99	27/58	37/77	38/87	6/13	1/99	1/99	43/92
40	39/89		40/91		41/93		42/95		43/97		4/9		41/92		25/56		43/97		40/91		41/92		25/56		30/67		40/91		41/92		42/95		30/67		4/9		40/89		44/97		37/82		35/78		29/64		44/97		5/11		41/90		29/64		44/97		37/82		33/73	
41	40/91	20/51	14/31	1/99	4/9	23/55	42/97	43/90	5/11	26/59	7/15	10/29	22/49	40/93	3/7	23/49	17/37	30/67	23/49	29/69	3/7	33/71	4/9	43/93	35/74	22/49	22/49	34/77	1/99	37/79	22/49	4/9	20/41	40/91	1/99	38/85	1/99	23/49	1/99	25/57	22/45	5/11	1/99	14/31	1/99	4/9	1/99	42/97	24/49	38/83	1/99	27/58	1/99	1/99	1/99	1/99	38/79	43/92	1/99	29/62
42	41/93		23/53		44/97		25/57		27/59		11/25		10/21		11/25		32/67		1/99		34/71		1/99		12/25		1/99		12/25		1/99		12/25		1/99		25/54		39/89		25/54		41/93		44/97		27/59		37/85		27/58		1/99		10/21		1/99		31/65	
43	42/95	19/48	43/97	1/99	43/99	21/50	13/29	45/94	7/15	26/61	16/35	1/99	22/51	29/65	9/20	8/17	8/17	31/69	6/13	30/71	4/9	23/51	34/79	34/75	8/17	36/77	37/78	35/79	9/20	41/95	1/99	37/83	41/92	8/17	21/43	13/29	23/51	43/97	1/99	40/91	1/99	8/17	23/47	23/51	1/99	43/97	1/99	43/99	1/99	41/92	25/51	41/88	1/99	16/35	1/99	1/99	1/99	1/99	40/83	37/79
44	43/97		5/11		26/57		27/59		28/61		29/63		6/13		6/13		6/13		6/13		6/13		23/52		5/11		36/79		37/81		38/83		39/85		40/87		41/89		6/13		14/31		6/13		6/13		6/13		41/90		26/57		16/35		38/83		39/85		17/37	
45	4/9	2/5	27/62	1/99	29/66	25/59	7/15	47/98	14/31	4/9	29/67	1/99	17/37	29/67	8/17	25/53	43/97	32/71	4/9	1/99	19/41	7/15	25/53	5/11	1/99	43/97	9/20	4/9	39/82	39/83	41/91	38/85	1/99	1/99	24/53	40/89	22/45	25/53	1/99	41/93	1/99	1/99	1/99	43/97	24/49	24/53	1/99	27/62	1/99	2/5	1/99	7/15	26/53	1/99	1/99	1/99	1/99	43/93	1/99	38/81
46	24/55		25/56		26/59		19/42		4/9		6/13		4/9		11/23		4/9		35/73		1/99		37/77		1/99		13/27		1/99		13/27		1/99		13/27		1/99		14/31		1/99		27/58		4/9		27/62		25/56		1/99		38/83		1/99		37/79		1/99	
47	38/87	33/85	13/29	1/99	9/20	5/12	31/70	37/77	27/62	28/65	5/11	1/99	8/17	31/69	6/13	33/71	1/99	32/73	5/11	32/75	42/89	5/11	20/43	36/79	9/20	38/81	1/99	36/83	44/97	5/11	41/86	13/29	5/11	42/89	1/99	41/91	1/99	1/99	23/47	42/95	1/99	44/97	1/99	5/11	1/99	1/99	25/51	38/87	1/99	31/69	1/99	5/13	1/99	6/13	27/55	1/99	1/99	1/99	1/99	31/66
48	42/97		43/99		27/62		38/87		39/89		29/66		3/7		38/87		39/89		43/99		27/62		41/95		42/97		43/99		40/93		41/95		38/89		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
49	16/37	1/99	35/79	1/99	14/31	3/7	7/16	38/79	33/74	29/67	8/17	1/99	41/90	31/71	30/71	34/73	19/41	34/75	9/19	1/99	17/39	36/79	9/20	37/81	7/15	41/90	9/19	1/99	1/99	41/87	5/11	40/89	43/90	1/99	10/23	14/31	1/99	9/19	1/99	43/97	24/49	1/99	1/99	41/90	1/99	27/73	1/99	39/89	26/53	1/99	1/99	1/99	1/99	1/99	1/99	1/99	28/57	33/73	1/99	39/83
50	29/67		27/61		41/92		29/65		21/46		30/67		33/71		13/29		12/25		1/99		38/79		1/99		40/83		1/99		14/29		1/99		43/91		1/99		44/95		1/99		5/11		1/99		25/56		1/99		29/66		1/99		1/99		1/99		1/99		6/13	
51	41/94	1/99	17/39	1/99	7/16	27/65	5/11	32/67	8/17	10/23	35/78	1/99	11/25	33/73	37/81	7/15	9/19	11/25	20/43	1/99	1/99	37/81	18/41	38/83	27/58	8/17	22/47	1/99	5/11	43/96	1/99	41/91	41/90	44/93	45/94	43/95	43/96	1/99	1/99	4/9	1/99	27/58	25/51	26/57	1/99	1/99	1/99	1/99	1/99	37/84	27/55	1/99	1/99	1/99	1/99	1/99	1/99	1/99	29/59	8/17
52	38/87		4/9		6/13		31/67		32/69		33/71		34/73		7/15		41/88		7/15		39/86		7/15		21/47		38/87		40/89		6/13		43/93		44/95		45/97		46/99		27/58		41/88		7/15		38/83		40/89		34/77		27/61		33/73		22/57		9/29	
53	27/62	1/99	7/16	1/99	18/41	1/99	31/68	11/23	16/35	30/71	19/43	1/99	37/82	11/25	9/19	36/77	11/24	36/79	1/99	1/99	7/15	37/83	47/99	39/85	1/99	11/24	5/11	1/99	23/49	43/91	38/83	14/31	1/99	1/99	11/24	44/97	47/98	47/99	1/99	41/92	1/99	1/99	3/7	16/35	26/53	38/83	1/99	1/99	1/99	1/99	1/99	7/22	28/57	43/97	1/99	1/99	1/99	1/99	1/99	31/67
54	4/9		32/73		30/67		9/20		32/71		23/50		14/31		36/77		7/16		13/27		1/99		41/85		1/99		43/89		1/99		15/31		1/99		46/97		1/99		27/58		1/99		16/35		1/99		40/89		1/99		22/59		1/99		4/9		1/99		1/99	
55	7/16	1/99	5/11	1/99	40/89	1/99	19/43	34/71	4/9	32/73	17/37	1/99	9/19	5/11	39/86	37/79	1/99	4/9	38/85	1/99	10/21	39/85	22/47	40/87	1/99	41/89	1/99	1/99	41/92	38/93	8/17	43/95	11/24	46/97	1/99	5/11	1/99	1/99	37/77	25/56	1/99	10/21	1/99	38/83	1/99	1/99	27/55	1/99	1/99	37/82	1/99	1/99	1/99	1/99	29/59	1/99	1/99	1/99	1/99	1/99
56	36/83		29/67		10/23		31/71		10/23		17/39		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
57	18/41	1/99	43/97	1/99	16/35	1/99	4/9	35/73	4/9	1/99	9/19	1/99	6/13	35/79	41/92	38/81	41/90	38/83	10/21	1/99	6/13	41/92	1/99	41/89	23/49	6/13	37/79	1/99	1/99	9/19	1/99	44/97	25/53	1/99	11/25	1/99	1/99	39/82	1/99	30/67	38/79	1/99	1/99	39/85	1/99	37/79	1/99	1/99	28/57	1/99	1/99	1/99	1/99	33/89	1/99	1/99	30/61	1/99	1/99	1/99
58	11/25		31/69		35/79		33/73		44/97		5/11		36/79		5/11		39/83		5/11		14/29		1/99		44/91		1/99		46/95		1/99		16/33		1/99		39/82		1/99		43/92		1/99		17/37		1/99		33/73		1/99		41/92		1/99		1/99		1/99	
59	40/93	1/99	19/43	1/99	4/9	1/99	17/37	12/25	35/76	34/77	21/47	1/99	38/85	4/9	41/89	39/83	10/21	38/85	43/94	1/99	1/99	41/89	4/9	6/13	43/92	14/31	8/17	1/99	11/24	43/93	1/99	5/11	40/89	29/61	26/55	1/99	6/13	1/99	1/99	1/99	1/99	31/65	40/83	17/37	7/16	1/99	1/99	1/99	1/99	6/13	29/59	43/93	1/99	1/99	1/99	1/99	1/99	11/25	31/63	1/99
60	19/43		31/71		33/73		7/15		36/77		37/79		38/81		39/83		8/17		23/49		8/17		40/91		40/93		24/53		15/34		1/99		1/99		26/57		7/15		43/92		29/62		37/79		38/81		31/66		39/83		8/17		31/67		41/90		31/84		41/93	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{4, 4+k, 4+k+i\}$.

k \ i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	5/12	5/13	4/11	1/3	5/16	1/3	7/19	2/5	3/7	5/11	5/11	10/23	5/12	2/5	5/13	10/27	11/29	2/5	13/31	7/16
2	5/13		1/3		6/19		1/3		9/23		5/12		2/5		11/29		12/31		13/33	
3	5/14	1/3	7/16	2/5	1/3	8/19	10/23	1/3	9/22	6/13	5/13	2/5	6/13	2/5	11/28	13/29	14/33	12/31	7/16	4/9
4	1/3		3/7		6/19		3/7		1/3		2/5		12/31		11/29		3/7		14/37	
5	1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3	
6	3/8		8/19		1/3		12/29		2/5		1/3		7/16		12/31		5/13		3/7	
7	7/17	5/13	4/9	3/7	7/22	2/5	11/24	2/5	7/17	8/17	3/7	1/3	16/37	14/31	5/13	2/5	8/17	3/7	17/43	5/11
8	4/9		7/18		10/31		2/5		4/9		15/37		1/3		13/33		3/7		4/9	
9	13/29	2/5	9/22	3/8	1/3	2/5	2/5	4/9	13/28	9/19	17/39	2/5	8/19	1/3	13/34	8/19	4/9	17/37	9/19	11/24
10	14/31		5/11				17/37		6/13		19/41		20/43				22/47		23/49	
11	5/11	7/17	3/7	2/5	12/37	8/21	3/7	2/5	18/41	10/21	15/32	5/11	19/45	3/7	7/18	1/3	3/7	16/39	22/51	6/13
12	10/23		2/5		1/3		16/41		18/43		5/11		3/7		19/49		1/3		9/22	
13	5/12	2/5	6/13	2/5	9/28	3/7	19/43	9/23	2/5	11/23	10/23	3/7	17/36	15/37	15/38	6/13	23/53	1/3	24/55	13/28
14	2/5		18/41		14/43		14/31		18/47		3/7		7/17		5/13		11/24		1/3	
15	2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5	
16	11/26		13/29		10/31		3/7		11/26		5/13		6/13		16/41		18/43		4/9	
17	4/9	11/27	21/47	5/12	16/49	11/27	8/17	3/7	4/9	13/27	2/5	11/28	25/57	13/29	23/59	18/43	21/44	4/9	4/9	15/32
18	21/47		3/7		1/3		3/7		17/37		8/19		11/28		17/43		4/9		13/28	
19	22/49	12/29	7/16	12/29	11/34	3/7	23/55	3/7	9/19	14/29	26/59	2/5	13/29	12/31	17/44	4/9	27/65	5/11	23/48	8/17
20	23/51		24/53				26/57		27/59		28/61		29/63				31/67		32/69	
21	24/53	13/31	24/55	3/7	1/3	13/31	17/38	13/31	27/61	15/31	10/21	7/16	2/5	4/9	9/23	12/31	14/31	3/7	31/71	17/36
22	5/11		3/7		12/37		25/61		3/7		20/43		7/16		9/23		28/71		22/51	
23	15/34	14/33	27/59	14/33	20/61	14/33	4/9	14/33	27/65	16/33	5/11	4/9	11/23	2/5	19/48	4/9	32/73	13/33	31/75	9/19
24	3/7		27/61		1/3		19/41		7/17		15/34		20/47		19/49		8/17		30/77	
25	3/7	3/7	3/7	3/7		3/7	3/7	3/7	3/7		3/7	20/47	3/7	3/7		3/7	3/7	3/7	23/54	
26	4/9		6/13		22/67		10/23		4/9		5/12		23/49		20/51		23/53		4/9	
27	29/65	16/37	30/67	16/37	1/3	16/37	33/71	4/9	21/46	18/37	31/75	8/19	34/77	17/39	31/79	2/5	13/27	5/11	17/37	10/21
28	30/67		10/23		14/43		4/9		22/47		3/7		8/19		21/53		17/38		9/19	
29	31/69	17/39	19/42	17/39	24/73	17/39	32/75	17/39	36/77	19/39	35/79	17/40	6/13	17/41	7/18	5/11	2/5	19/43	14/29	21/44
30	32/71		33/73				5/11		36/79		37/81		38/83				40/87		41/89	
31	33/73	18/41	11/25	18/41	15/46	18/41	11/24	18/41	4/9	20/41	39/83	3/7	17/41	5/11	11/28	17/41	19/41	2/5	40/91	11/23
32	34/75		4/9		15/47		3/7		36/83		25/53		19/42		35/89		3/7		27/61	
33	5/11	19/43	36/79	19/43	1/3	19/43	37/83	19/43	36/85	21/43	25/54	5/11	42/89	19/45	23/58	10/23	41/93	18/43	29/74	23/48
34	4/9		4/9		4/15		8/17		19/44		5/11		3/7		23/59		29/61		41/97	
35	4/9	4/9	7/16	4/9		4/9	23/52	4/9	4/9		4/9	25/57	4/9	26/59		27/61	4/9	4/9	4/9	
36	37/83		39/85		1/99		39/89		5/11		10/23		28/59		7/19		4/9		21/46	
37	38/85	21/47	13/29	21/47	1/99	21/47	6/13	21/47	13/28	23/47	20/47	7/16	43/97	3/7	1/99	21/50	29/61	6/13	22/47	22/47
38	13/29		39/89		1/99		5/11		9/19		42/97		7/16		1/99		11/24		32/67	
39	40/89	22/49	6/13	22/49	1/99	22/49	41/95	22/49	45/97	21/44	4/9	11/25	29/62	22/51	1/99	6/13	3/7	23/53	41/86	23/49
40	41/91		14/31				44/97		5/11		41/90		26/57				44/97		5/11	
41	14/31	23/51	42/95	23/51	1/99	23/51	27/58	23/51	41/92	11/23	11/24	23/52	37/86	24/53	1/99	22/51	8/17	1/99	27/62	33/71
42	43/95		5/11		1/99		26/59		31/72		10/21		6/13		1/99		23/52		31/71	
43	44/97	24/53	5/11	24/53	1/99	23/51	25/56	11/25	23/53	23/48	15/32	42/97	35/76	41/99	1/99	29/69	38/87	42/97	1/99	34/73
44	5/11		41/92		1/99		28/61		4/9		6/13		16/37		1/99		34/71		4/9	
45	25/56	5/11	13/29	5/11		11/25	14/31	4/9	29/64		5/11	30/67	44/97	31/69		32/71	39/86	33/73	33/74	
46	11/25		37/82		1/99		33/76		6/13		41/92		11/23		1/99		1/99		13/28	
47	19/43	26/57	35/78	26/57	1/99	44/97	17/37	3/7	31/66	25/52	7/16	10/23	3/7	38/91	1/99	1/99	13/28	34/75	9/19	36/77
48	15/34		27/61		1/99		6/13		31/67		17/39		13/29		1/99		46/99		37/77	
49	4/9	27/59	14/31	27/59	1/99	27/61	29/66	3/7	6/13	11/23	37/84	30/71	17/36	32/73	1/99	11/25	31/73	1/99	41/88	37/79
50	41/92		25/56				35/78		4/9		35/81		25/56				35/78		40/89	
51	4/9	28/61	7/16	28/61	1/99	4/9	8/17	28/65	27/62	34/71	19/41	13/31	34/77	10/23	1/99	34/77	37/78	1/99	1/99	38/81
52	21/47		6/13		1/99		31/69		18/41		34/73		7/15		1/99		14/31		1/99	
53	38/85	29/63	17/38	29/63	1/99	29/65	38/87	31/71	4/9	35/73	35/74	7/16	20/43	3/7	1/99	1/99	1/99	4/9	1/99	39/83
54	29/65		37/84		1/99		45/98		33/73		7/15		1/99		1/99		13/27		18/41	
55	5/11	6/13	31/68	6/13		30/67	11/24	10/23	17/37		35/76	5/11	6/13	36/79		37/81	41/89	38/83	41/89	
56	30/67		35/79		1/99		19/43		7/15		5/11		37/79		1/99		1/99		22/47	
57	34/77	31/67	42/97	31/67	1/99	31/69	19/42	31/71	9/19	37/77	41/92	35/79	1/99	19/46	1/99	1/99	22/47	37/85	41/86	41/87
58	39/88		32/71		1/99		7/15		5/11		1/99		44/97		1/99		8/17		14/29	
59	3/7	32/69	43/95	32/69	1/99	32/71	17/38	32/73	5/11	38/79	1/99	35/81	39/82	37/83	1/99	1/99	1/99	1/99	23/49	42/89
60	3/7		40/93				42/97		43/99		27/62		38/87				1/99		1/99	

k \ i	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	5/11	5/11	15/34	3/7	5/12	15/37	15/38	2/5	17/41	3/7	19/43	5/11	5/11	4/9	10/23	20/47	5/12	20/49	7/17	11/26
2	2/5		5/12		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53	
3	13/34	3/7	6/13	2/5	8/19	6/13	18/43	17/41	19/42	10/23	9/22	4/9	22/49	19/47	7/16	6/13	22/53	22/51	6/13	3/7
4	3/7		16/41		16/39		2/5		19/47		3/7		7/17		3/7		23/55		8/19	
5	1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3	
6	14/37		19/45		17/41		19/49		7/16		19/47		2/5		22/51		24/59		26/61	
7	17/38	9/23	20/47	19/41	3/7	7/17	8/17	4/9	21/53	4/9	11/24	3/7	8/19	8/17	23/52	2/5	28/61	5/11	3/7	7/16
8	7/18		16/41		18/43		4/9		23/55		19/49		7/17		23/53		4/9		2/5	
9	3/7	17/41	20/51	5/13	22/53	4/9	21/46	22/47	9/19	13/29	25/59	8/19	24/61	13/31	4/9	5/11	13/28	9/19	31/67	15/34
10	8/17		25/53				9/19		28/59		29/61		10/21				32/67		11/23	
11	10/21	20/43	5/11	3/7	19/46	18/47	23/59	3/7	26/61	14/31	10/21	25/53	25/54	5/11	29/67	7/17	9/23	3/7	30/71	4/9
12	5/11		4/9		20/47		24/61		25/63		28/65		5/11		25/57		25/59		29/73	
13	8/19	10/23	11/23	20/47	5/12	23/49	3/7	20/51	6/13	5/11	9/23	15/34	11/23	10/23	25/58	28/59	31/73	25/61	29/62	17/38
14	4/9		5/12		3/7		29/65		26/67		5/11		28/71		26/59		32/75		3/7	
15	2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5	
16	1/3		6/13		28/67		11/26		5/11		22/57		11/25		27/61		31/79		6/13	
17	28/65	1/3	29/67	8/17	11/26	23/53	13/27	4/9	30/73	17/37	34/75	15/38	3/7	29/61	27/62	4/9	13/27	18/41	33/83	19/42
18	3/7		1/3		22/53		5/11		34/75		3/7		24/61		4/9		6/13		37/85	
19	10/23	22/51	31/71	1/3	23/54	13/29	11/25	9/19	14/29	6/13	34/79	27/61	12/29	16/41	7/16	3/7	39/85	32/67	14/29	5/11
20	33/71		34/73				36/77		37/79		38/81		39/83				41/87		42/89	
21	25/52	17/37	32/75	14/31	3/7	1/99	34/79	26/59	35/81	19/41	15/31	10/21	38/85	19/43	29/66	26/67	13/31	31/69	3/7	21/46
22	15/32		5/11		8/19		1/99		7/16		39/85		6/13		29/67		9/23		32/77	
23	5/11	5/11	27/56	25/57	34/81	19/41	36/83	1/99	37/85	20/43	37/87	5/11	16/33	30/67	15/34	11/23	40/93	1/99	43/95	11/24
24	35/79		25/57		25/59		8/17		1/99		6/13		15/34		10/23		43/95		1/99	
25	3/7	3/7	3/7	3/7		26/61	3/7	3/7	3/7		3/7	3/7	29/68	3/7		3/7	3/7	3/7	3/7	
26	7/18		17/36		26/61		4/9		6/13		1/99		44/95		31/71		4/9		7/15	
27	12/29	17/43	38/87	5/11	13/31	4/9	31/64	17/37	41/93	22/47	41/95	1/99	42/97	33/71	4/9	33/73	18/37	41/93	16/37	21/47
28	26/59		15/38		3/7		14/31		9/19		17/38		1/99		32/73		7/15		39/86	
29	39/89	19/45	6/13	1/99	27/64	6/13	14/33	11/24	33/68	5/11	43/99	32/71	19/44	1/99	16/37	6/13	33/76	36/77	19/39	22/49
30	6/13		43/93				45/97		46/99		6/13		43/93				45/97		46/99	
31	15/31	21/47	27/64	6/13	14/33	1/99	5/11	10/23	27/62	21/46	35/72	33/73	16/37	19/41	33/76	1/99	17/39	36/79	7/16	23/51
32	10/21		43/97		28/67		1/99		32/71		10/21		34/75		34/77		1/99		19/42	
33	20/43	6/13	16/33	37/89	29/68	23/51	38/87	1/99	31/72	11/24	11/25	20/43	37/76	5/11	17/39	36/79	7/16	1/99	18/41	24/53
34	5/11		30/67		29/69		21/44		1/99		41/92		5/11		35/79		45/98		1/99	
35	29/66	4/9	15/34	4/9		4/9	4/9	4/9	4/9		4/9	34/77	4/9	35/79		4/9	4/9	4/9	37/84	
36	19/46		11/23		30/71		33/73		16/37		1/99		11/23		4/9		21/46		39/85	
37	1/99	20/47	42/97	4/9	5/12	1/99	18/37	7/15	38/85	5/11	17/39	1/99	7/16	41/91	18/41	37/83	41/84	22/47	19/43	13/29
38	31/69		1/99		31/73		39/89		23/48		36/79		1/99		36/83		38/85		11/24	
39	43/99	1/99	23/49	1/99	31/74	7/15	1/99	13/29	19/39	36/79	7/16	1/99	38/85	1/99	37/84	23/49	1/99	44/97	43/88	40/89
40	41/90		14/31				44/97		5/11		41/90		26/57				44/97		39/85	
41	17/36	36/83	1/99	7/15	1/99	1/99	8/17	1/99	22/51	37/81	20/41	14/31	1/99	8/17	19/43	1/99	39/88	39/89	1/99	41/91
42	35/73		6/13		1/99		1/99		37/81		25/52		36/85		1/99		1/99		6/13	
43	25/53	7/15	9/19	1/99	1/99	39/89	1/99	1/99	1/99	38/83	24/53	8/17	21/43	1/99	39/88	39/89	1/99	1/99	1/99	14/31
44	44/97		5/11		1/99		13/27		1/99		1/99		40/87		39/89		6/13		1/99	
45	5/11	5/11	35/78	39/86		44/97	37/82	37/83	19/42		39/86	5/11	5/11	40/89		41/91	41/92	14/31	44/97	
46	3/7		38/79		1/99		38/83		25/56		1/99		42/89		40/91		43/93		1/99	
47	1/99	7/16	7/16	1/99	1/99	1/99	10/21	8/17	9/19	40/87	1/99	1/99	1/99	1/99	1/99	1/99	23/47	9/19	43/96	44/97
48	1/99		1/99		1/99		41/92		14/29		41/89		1/99		1/99		1/99		45/97	
49	1/99	1/99	9/19	1/99	1/99	8/17	1/99	1/99	21/44	41/89	1/99	1/99	42/95	1/99	1/99	9/19	1/99	1/99	24/49	5/11
50	41/92		41/93				43/97		40/89		40/91		41/93				43/97		4/9	
51	43/92	1/99	1/99	8/17	1/99	1/99	7/15	1/99	1/99	6/13	11/23	1/99	1/99	9/19	1/99	1/99	16/35	1/99	1/99	41/90
52	40/83		5/11		1/99		1/99		6/13		15/31		1/99		1/99		1/99		27/58	
53	10/21	39/85	15/32	1/99	1/99	1/99	1/99	1/99	1/99	43/93	10/21	9/19	23/48	1/99	1/99	1/99	1/99	1/99	1/99	26/57
54	15/32		1/99		1/99		44/91		1/99		7/16		45/97		1/99		29/61		1/99	
55	13/29	40/87	6/13	41/89		6/13	21/46	14/31	43/94		11/24	22/49	45/98	5/11		41/90	41/89	26/57	6/13	
56	5/11		43/89		1/99		1/99		33/73		1/99		16/33		1/99		41/88		1/99	
57	1/99	4/9	1/99	1/99	1/99	1/99	41/87	9/19	31/66	45/97	1/99	1/99	1/99	1/99	1/99	1/99	25/52	10/21	41/89	38/83
58	1/99		1/99		1/99		8/17		47/97		1/99		1/99		1/99		1/99		41/86	
59	1/99	1/99	11/23	1/99	1/99	44/95	1/99	1/99	23/49	46/99	1/99	1/99	11/23	1/99	1/99	10/21	1/99	1/99	13/27	39/85
60	1/99		1/99				1/99		1/99		1/99		1/99				1/99		1/99	

k \ i	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	23/53	4/9	5/11	5/11	25/56	25/57	25/58	25/59	5/12	13/31	3/7	7/16	29/65	5/11	5/11	30/67	15/34	10/23	3/7	30/71
2	24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
3	23/54	5/11	26/59	8/19	13/29	14/31	5/12	27/61	6/13	14/33	7/16	6/13	10/23	29/67	31/68	4/9	3/7	32/71	34/75	31/73
4	25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77	
5	1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3		1/3	1/3	1/3	1/3	
6	8/19		27/65		7/16		29/69		30/71		29/67		32/75		3/7		34/79		35/81	
7	27/58	26/59	28/67	8/17	14/31	3/7	32/71	6/13	29/66	16/37	8/17	31/69	3/7	6/13	11/24	32/73	4/9	7/15	17/38	3/7
8	24/59		26/61		4/9		31/73		31/75		29/69		31/71		4/9		35/83		36/85	
9	29/69	2/5	30/71	4/9	29/64	6/13	31/66	9/19	5/11	17/39	8/19	17/40	4/9	33/73	17/37	7/15	9/19	20/43	13/29	19/44
10	34/71		35/73				37/77		38/79		13/27		40/83				14/29		43/89	
11	34/73	10/21	15/32	6/13	5/11	17/39	33/79	2/5	3/7	18/41	38/83	10/21	35/74	7/15	35/76	5/11	39/89	19/45	3/7	10/23
12	31/75		5/11		30/67		10/23		30/71		2/5		38/87		5/11		35/79		35/81	
13	25/64	6/13	37/79	17/40	4/9	11/23	3/7	3/7	17/36	19/43	12/29	7/15	41/89	2/5	6/13	11/23	10/23	21/47	39/82	7/16
14	11/24		32/81		31/69		5/12		32/73		40/89		3/7		36/79		1/99		37/83	
15	2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5		2/5	2/5	2/5	2/5	
16	35/83		36/85		32/71		28/73		6/13		34/77		11/26		37/81		14/33		41/92	
17	8/17	29/69	3/7	34/71	4/9	4/9	43/91	21/46	1/99	21/47	37/78	34/79	7/16	13/27	4/9	21/50	27/58	8/17	1/99	23/52
18	11/28		37/89		33/73		13/28		3/7		1/99		4/9		38/83		26/57		3/7	
19	3/7	13/29	1/99	31/73	33/74	21/47	9/19	37/77	46/97	22/49	7/16	3/7	1/99	36/83	13/29	6/13	41/86	14/29	43/92	38/89
20	43/91		44/93				46/97		47/99		29/61		44/93				46/97		47/99	
21	15/31	35/73	44/95	7/16	17/38	3/7	1/99	14/31	7/16	23/51	39/82	40/83	10/21	24/53	14/31	38/87	1/99	41/96	4/9	25/56
22	42/95		7/15		5/11		33/79		1/99		36/83		15/32		40/87		38/89		1/99	
23	2/5	3/7	16/33	5/11	35/78	38/79	7/16	34/81	19/41	7/16	1/99	4/9	20/43	5/11	5/11	43/89	4/9	40/91	11/23	23/53
24	7/15		7/17		35/79		35/81		1/99		8/17		1/99		41/89		40/91		1/99	
25	3/7	3/7	3/7	3/7		3/7	35/82	3/7	3/7		3/7	3/7	3/7	38/89		3/7	3/7	3/7	3/7	
26	1/99		18/41		4/9		1/99		8/17		1/99		39/89		6/13		1/99		44/95	
27	17/39	1/99	41/97	13/27	37/82	38/83	10/21	3/7	1/99	38/87	5/11	1/99	4/9	44/91	21/46	23/51	22/47	41/95	1/99	42/97
28	8/19		1/99		37/83		8/17		7/16		1/99		1/99		14/31		9/19		1/99	
29	17/39	37/81	17/39	1/99	19/42	19/44	19/43	14/29	21/44	39/89	1/99	6/13	1/99	1/99	43/94	1/99	11/24	47/97	23/49	43/99
30	27/58		41/88				45/97		41/89		27/58		43/93				45/97		46/99	
31	20/41	39/83	18/41	10/23	39/86	1/99	1/99	41/89	1/99	40/91	11/23	15/31	21/47	1/99	11/24	1/99	1/99	43/93	1/99	27/62
32	43/94		8/17		13/29		1/99		1/99		41/93		9/19		9/20		1/99		1/99	
33	37/84	35/78	21/43	40/87	5/11	42/89	1/99	1/99	15/34	41/93	1/99	1/99	23/48	45/97	45/98	16/33	1/99	1/99	23/51	38/87
34	8/17		5/11		40/89		22/49		1/99		9/19		1/99		5/11		1/99		1/99	
35	19/43	4/9	39/88	4/9		4/9	4/9	41/93	4/9		7/16	43/97	43/98	4/9		15/34	15/34	43/97	23/52	
36	1/99		41/89		41/91		10/23		9/19		1/99		4/9		41/90		1/99		10/21	
37	39/88	1/99	1/99	6/13	41/92	43/93	23/47	23/52	1/99	14/31	1/99	1/99	1/99	29/61	41/89	41/88	25/52	1/99	1/99	29/66
38	11/24		1/99		14/31		9/19		24/53		1/99		1/99		26/57		10/21		1/99	
39	1/99	6/13	1/99	1/99	21/47	22/49	1/99	45/97	24/49	4/9	1/99	27/58	1/99	1/99	6/13	1/99	1/99	41/86	13/27	37/84
40	41/90		26/57				38/83		5/11		41/90		29/63				38/83		39/85	
41	45/92	26/57	1/99	8/17	43/96	1/99	1/99	46/99	1/99	41/92	25/51	41/88	1/99	1/99	24/53	1/99	1/99	29/62	1/99	34/77
42	6/13		43/95		44/97		1/99		3/7		38/87		10/21		38/83		1/99		1/99	
43	1/99	43/95	47/96	44/97	22/49	39/85	1/99	1/99	1/99	25/56	1/99	23/53	26/53	43/92	1/99	29/62	1/99	1/99	1/99	1/99
44	1/99		44/97		5/11		41/92		1/99		7/17		28/71		39/85		1/99		1/99	
45	43/96	44/97	5/11	5/11		41/92	23/51	25/56	33/73		24/53	35/78	44/97	5/11		41/91	5/11	23/55	5/11	
46	1/99		19/48		41/92		25/56		16/35		1/99		22/53		17/37		1/99		11/23	
47	1/99	1/99	1/99	19/49	23/51	25/56	26/53	30/67	1/99	35/78	1/99	1/99	1/99	11/27	1/99	38/81	28/57	1/99	1/99	1/99
48	46/99		1/99		1/99		7/17		35/78		37/84		1/99		1/99		31/66		1/99	
49	1/99	1/99	1/99	1/99	1/99	20/51	1/99	11/26	27/55	40/89	1/99	17/37	1/99	1/99	1/99	1/99	1/99	46/99	29/59	21/58
50	41/92		1/99				1/99		1/99		41/91		1/99				1/99		1/99	
51	25/51	1/99	1/99	7/15	1/99	1/99	1/99	1/99	1/99	11/27	28/57	37/82	1/99	43/97	1/99	1/99	1/99	12/29	1/99	1/99
52	41/88		1/99		1/99		1/99		7/18		23/55		1/99		1/99		1/99		1/99	
53	23/52	10/21	26/53	1/99	1/99	1/99	1/99	1/99	1/99	2/5	1/99	3/7	29/59	1/99	1/99	1/99	1/99	1/99	1/99	1/99
54	1/99		21/52		1/99		17/37		1/99		1/99		23/57		1/99		1/99		1/99	
55	29/63	38/83	40/89	39/85		17/37	41/90	29/63	26/57		1/99	22/57	26/57	7/23		25/77	28/61	41/90	28/61	
56	1/99		29/62		1/99		29/79		1/99		1/99		23/58		1/99		23/72		1/99	
57	1/99	1/99	1/99	1/99	1/99	1/99	28/57	31/66	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	31/63	43/96	1/99	1/99
58	29/62		1/99		1/99		1/99		33/91		12/29		1/99		1/99		1/99		27/83	
59	1/99	1/99	1/99	1/99	1/99	11/23	1/99	1/99	29/59	44/97	1/99	1/99	1/99	1/99	1/99	24/61	1/99	1/99	32/65	1/99
60	1/99		1/99				1/99		1/99		1/99		1/99				1/99		1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{5, 5+k, 5+k+i\}$.

2 Four Generators

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1/5	1/4	1/4	1/4	2/9	1/4	1/4	1/4	3/13	1/4	1/4	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4
2	1/3	1/4	1/3	1/3	3/11	1/3	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13
3	2/7	1/3	1/3	3/10	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3
4	1/4	2/7	2/7	3/11	1/4	2/7	2/7	4/15	2/7	2/7	5/18	5/19	2/7	2/7	3/11	2/7	2/7	7/25	7/26	2/7
5	1/3	3/11	1/3	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29
6	3/10	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3
7	3/11	3/10	3/10	2/7	7/26	3/10	5/17	5/18	3/10	3/10	2/7	3/10	3/10	7/24	7/25	3/10	8/27	2/7	3/10	3/10
8	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16
9	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3
10	2/7	4/13	4/13	5/17	9/32	4/13	3/10	2/7	4/13	7/23	7/24	4/13	4/13	8/27	4/13	4/13	3/10	9/31	4/13	10/33
11	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35
12	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3
13	5/17	5/16	5/16	3/10	11/38	5/16	7/23	12/41	5/16	4/13	8/27	5/16	9/29	3/10	5/16	5/16	10/33	5/16	5/16	11/36
14	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19
15	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3
16	3/10	6/19	6/19	7/23	13/44	6/19	4/13	14/47	6/19	9/29	3/10	6/19	5/16	10/33	6/19	11/35	11/36	6/19	6/19	4/13
17	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41
18	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3
19	7/23	7/22	7/22	4/13	3/10	7/22	9/29	16/53	7/22	5/16	17/56	7/22	11/35	11/36	7/22	6/19	4/13	7/22	13/41	13/42
20	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22
21	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3
22	4/13	8/25	8/25	9/29	17/56	8/25	5/16	18/59	8/25	11/35	19/62	8/25	6/19	4/13	8/25	13/41	13/42	8/25	7/22	14/45
23	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47
24	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3
25	9/29	9/28	9/28	5/16	19/62	9/28	11/35	4/13	9/28	6/19	21/68	9/28	13/41	22/71	9/28	7/22	14/45	9/28	15/47	5/16
26	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25
27	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3
28	5/16	10/31	10/31	11/35	21/68	10/31	6/19	22/71	10/31	13/41	23/74	10/31	7/22	24/77	10/31	15/47	5/16	10/31	8/25	16/51
29	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53
30	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3
31	11/35	11/34	11/34	6/19	23/74	11/34	13/41	24/77	11/34	7/22	5/16	11/34	15/47	26/83	11/34	8/25	27/86	11/34	17/53	17/54
32	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28
33	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3
34	6/19	12/37	12/37	13/41	5/16	12/37	7/22	26/83	12/37	15/47	27/86	12/37	8/25	28/89	12/37	17/53	29/92	12/37	9/28	6/19
35	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59
36	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3
37	13/41	13/40	13/40	7/22	27/86	13/40	15/47	28/89	13/40	8/25	29/92	13/40	17/53	6/19	13/40	9/28	31/98	13/40	19/59	19/60
38	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31
39	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3
40	7/22	14/43	14/43	15/47	29/92	14/43	8/25	6/19	14/43	17/53	31/98	14/43	9/28	19/60	14/43	19/59	20/63	14/43	10/31	27/85
41	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65
42	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3
43	15/47	15/46	15/46	8/25	31/98	15/46	17/53	19/60	15/46	9/28	20/63	15/46	19/59	27/85	15/46	10/31	7/22	15/46	21/65	29/91
44	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34
45	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3
46	8/25	16/49	16/49	17/53	20/63	16/49	9/28	27/85	16/49	19/59	7/22	16/49	10/31	29/91	16/49	21/65	22/69	16/49	11/34	23/72
47	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71
48	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3
49	17/53	17/52	17/52	9/28	7/22	17/52	19/59	29/91	17/52	10/31	22/69	17/52	21/65	23/72	17/52	11/34	31/97	17/52	23/71	8/25
50	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37
51	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3
52	9/28	27/85	18/55	19/59	22/69	18/55	10/31	23/72	18/55	21/65	31/97	18/55	11/34	8/25	18/55	23/71	25/78	18/55	12/37	25/78
53	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77
54	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3
55	19/59	29/91	19/58	10/31	31/97	19/58	21/65	8/25	19/58	11/34	25/78	19/58	23/71	25/78	19/58	12/37	26/81	19/58	25/77	26/81
56	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40
57	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3
58	10/31	5/16	20/61	21/65	31/97	20/61	11/34	25/78	20/61	23/71	26/81	20/61	12/37	26/81	20/61	25/77	9/28	20/61	13/40	13/41
59	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83
60	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3

$k \setminus i$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4
2	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3
3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46
4	2/7	8/29	2/7	2/7	9/32	3/11	2/7	2/7	5/18	2/7	2/7	11/39	11/40	2/7	2/7	12/43	2/7	2/7	13/46	13/47
5	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3
6	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49
7	9/31	3/10	3/10	5/17	2/7	3/10	11/37	11/38	3/10	3/10	12/41	3/10	3/10	13/44	13/45	3/10	14/47	7/24	3/10	3/10
8	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3
9	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52
10	5/17	4/13	11/36	11/37	4/13	4/13	3/10	4/13	4/13	13/43	13/44	4/13	7/23	14/47	4/13	15/49	3/10	4/13	4/13	16/53
11	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3
12	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55
13	11/37	5/16	4/13	3/10	5/16	13/42	13/43	5/16	14/45	7/23	5/16	5/16	15/49	5/16	5/16	4/13	16/53	5/16	17/55	17/56
14	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3
15	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58
16	6/19	6/19	13/42	13/43	6/19	14/45	7/23	6/19	5/16	15/49	6/19	16/51	4/13	6/19	17/54	17/55	6/19	6/19	9/29	6/19
17	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3
18	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61
19	7/22	7/22	14/45	7/22	7/22	5/16	15/49	7/22	16/51	4/13	7/22	17/54	17/55	7/22	6/19	9/29	7/22	19/60	19/61	7/22
20	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3
21	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64
22	8/25	15/47	5/16	8/25	8/25	16/51	8/25	8/25	17/54	17/55	8/25	6/19	9/29	8/25	19/60	19/61	8/25	20/63	5/16	8/25
23	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3
24	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67
25	9/28	8/25	16/51	9/28	17/53	17/54	9/28	9/28	6/19	9/28	9/28	19/60	19/61	9/28	20/63	5/16	9/28	7/22	21/67	9/28
26	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3
27	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70
28	10/31	17/53	17/54	10/31	9/28	6/19	10/31	19/59	19/60	10/31	10/31	20/63	10/31	10/31	7/22	21/67	10/31	22/69	11/35	10/31
29	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3
30	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73
31	11/34	9/28	6/19	11/34	19/59	19/60	11/34	10/31	20/63	11/34	21/65	7/22	11/34	11/34	22/69	11/34	11/34	23/72	23/73	11/34
32	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3
33	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76
34	12/37	19/59	19/60	12/37	10/31	20/63	12/37	21/65	7/22	12/37	11/34	22/69	12/37	23/71	23/72	12/37	12/37	8/25	12/37	12/37
35	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3
36	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79
37	13/40	10/31	20/63	13/40	21/65	7/22	13/40	11/34	22/69	13/40	23/71	23/72	13/40	12/37	8/25	13/40	25/77	25/78	13/40	13/40
38	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3
39	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82
40	14/43	21/65	7/22	14/43	11/34	22/69	14/43	23/71	23/72	14/43	12/37	8/25	14/43	25/77	25/78	14/43	13/40	26/81	14/43	27/83
41	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3
42	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85
43	15/46	11/34	22/69	15/46	23/71	23/72	15/46	12/37	8/25	15/46	25/77	25/78	15/46	13/40	26/81	15/46	27/83	9/28	15/46	14/43
44	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3
45	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88
46	16/49	23/71	31/97	16/49	12/37	8/25	16/49	25/77	25/78	16/49	13/40	26/81	16/49	27/83	9/28	16/49	14/43	28/87	16/49	29/89
47	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3
48	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91
49	17/52	12/37	25/78	17/52	25/77	25/78	17/52	13/40	26/81	17/52	27/83	9/28	17/52	14/43	28/87	17/52	29/89	29/90	17/52	15/46
50	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3
51	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94
52	18/55	25/77	26/81	18/55	13/40	26/81	18/55	27/83	9/28	18/55	14/43	28/87	18/55	29/89	29/90	18/55	15/46	10/31	18/55	31/95
53	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3
54	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97
55	19/58	13/40	9/28	19/58	27/83	9/28	19/58	14/43	28/87	19/58	29/89	29/90	19/58	15/46	10/31	19/58	31/95	31/96	19/58	16/49
56	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3
57	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97
58	20/61	27/83	28/87	20/61	14/43	7/22	20/61	29/89	29/90	20/61	15/46	10/31	20/61	31/95	31/96	20/61	16/49	32/99	20/61	17/52
59	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3
60	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97

$k \setminus i$	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4
2	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3
3	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3
4	2/7	2/7	7/25	2/7	2/7	15/53	5/18	2/7	2/7	16/57	2/7	2/7	17/60	17/61	2/7	2/7	9/32	2/7	2/7	19/67
5	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3
6	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3
7	5/17	3/10	3/10	8/27	16/55	3/10	17/57	17/58	3/10	3/10	18/61	3/10	3/10	19/64	19/65	3/10	20/67	5/17	3/10	3/10
8	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3
9	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3
10	4/13	4/13	17/56	17/57	4/13	18/59	3/10	4/13	19/62	19/63	4/13	4/13	10/33	4/13	4/13	7/23	3/10	4/13	11/36	22/73
11	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3
12	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3
13	5/16	9/29	18/59	5/16	19/61	19/62	5/16	5/16	4/13	5/16	5/16	21/68	7/23	5/16	22/71	11/36	5/16	23/74	23/75	5/16
14	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3
15	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3
16	6/19	19/61	19/62	6/19	5/16	4/13	6/19	21/67	21/68	6/19	11/35	22/71	6/19	23/73	23/74	6/19	6/19	24/77	6/19	6/19
17	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3
18	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3
19	20/63	5/16	7/22	7/22	21/67	7/22	7/22	11/35	22/71	7/22	23/73	23/74	7/22	6/19	24/77	7/22	25/79	5/16	7/22	13/41
20	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3
21	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3
22	7/22	21/67	8/25	22/69	11/35	8/25	23/72	23/73	8/25	8/25	6/19	8/25	8/25	25/79	5/16	8/25	13/41	26/83	8/25	27/85
23	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3
24	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3
25	22/69	11/35	9/28	23/72	23/73	9/28	8/25	6/19	9/28	25/78	25/79	9/28	26/81	13/41	9/28	9/28	27/85	9/28	9/28	7/22
26	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3
27	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3
28	23/72	23/73	10/31	8/25	6/19	10/31	25/78	25/79	10/31	26/81	13/41	10/31	9/28	27/85	10/31	28/87	7/22	10/31	29/90	29/91
29	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3
30	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3
31	8/25	6/19	11/34	25/78	25/79	11/34	26/81	13/41	11/34	9/28	27/85	11/34	28/87	7/22	11/34	29/90	29/91	11/34	10/31	15/47
32	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3
33	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3
34	25/78	25/79	12/37	26/81	13/41	12/37	9/28	27/85	12/37	28/87	7/22	12/37	29/90	29/91	12/37	10/31	15/47	12/37	31/96	31/97
35	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3
36	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3
37	26/81	13/41	13/40	9/28	27/85	13/40	28/87	7/22	13/40	29/90	29/91	13/40	10/31	15/47	13/40	31/96	31/97	13/40	32/99	8/25
38	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3
39	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
40	9/28	14/43	14/43	28/87	7/22	14/43	29/90	29/91	14/43	10/31	15/47	14/43	31/96	31/97	14/43	32/99	8/25	14/43	11/34	25/78
41	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3
42	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
43	28/87	15/46	29/89	29/90	15/46	15/46	10/31	15/47	15/46	31/96	31/97	15/46	32/99	8/25	15/46	11/34	25/78	15/46	23/71	17/53
44	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3
45	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
46	29/90	16/49	15/46	10/31	16/49	31/95	31/96	16/49	16/49	32/99	8/25	31/95	11/34	25/78	16/49	23/71	17/53	16/49	23/71	26/81
47	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3
48	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
49	10/31	17/52	31/95	31/96	17/52	16/49	32/99	17/52	17/52	11/34	17/52	17/52	23/71	17/53	17/52	23/71	26/81	17/52	12/37	9/28
50	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3	1/3	19/58	1/3
51	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
52	31/96	18/55	16/49	32/99	18/55	17/52	11/34	18/55	17/52	23/71	18/55	18/55	23/71	18/55	18/55	12/37	9/28	18/55	25/77	28/87
53	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	19/58	1/3
54	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
55	32/99	19/58	17/52	11/34	19/58	17/52	23/71	19/58	18/55	23/71	19/58	18/55	12/37	19/58	19/58	25/77	19/58	19/58	25/77	19/59
56	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	19/58	1/3	1/3	20/61	1/3
57	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3
58	11/34	20/61	17/52	23/71	20/61	18/55	23/71	20/61	18/55	12/37	20/61	19/58	25/77	20/61	19/58	25/77	20/61	20/61	13/40	20/61
59	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	20/61	1/3
60	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{1, 2, 2+k, 2+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1/4	2/7	1/4	2/7	1/4	2/7	2/7	4/15	2/7	4/15	2/7	4/15	2/7	2/7	3/11	2/7	3/11	2/7	3/11	2/7
2	3/11		4/13		1/3		6/17		7/19		8/21		9/23		2/5		11/27		12/29	
3	1/4	1/3	1/4	1/3	2/7	1/3	5/16	3/10	1/3	3/11	1/3	2/7	1/3	7/23	1/3	8/25	9/29	1/3	9/31	1/3
4	4/15		5/17		6/19		1/3		8/23		9/25		10/27		11/29		12/31		13/33	
5	1/4	4/11	2/7	4/11	5/16	4/11	1/3	1/3	7/20	4/13	4/11	7/23	4/11	8/25	4/11	1/3	4/11	10/29	12/35	11/31
6	5/19		2/7		7/23		8/25		1/3		10/29		11/31		4/11		13/35		14/37	
7	2/7	5/13	5/16	5/13	1/3	5/13	7/20	5/14	4/11	1/3	3/8	8/25	5/13	1/3	5/13	10/29	5/13	11/31	5/13	4/11
8	4/15		7/25		8/27		9/29		10/31		1/3		12/35		13/37		14/39		15/41	
9	7/25	2/5	1/3	2/5	7/20	2/5	4/11	3/8	3/8	6/17	5/13	1/3	11/28	10/29	2/5	11/31	2/5	4/11	2/5	13/35
10	14/53		5/18		10/31		7/23		11/35		12/37		1/3		14/41		15/43		16/45	
11	8/29	7/17	10/31	7/17	4/11	7/17	3/8	7/18	5/13	7/19	11/28	7/20	2/5	1/3	13/32	4/11	7/17	13/35	7/17	14/37
12	5/19		2/7		11/35		12/37		1/3		1/3		1/3		1/3		16/47		17/49	
13	3/11	8/19	11/35	8/19	13/37	8/19	5/13	2/5	11/28	8/21	2/5	4/11	13/32	8/23	7/17	1/3	5/12	9/25	8/19	5/13
14	2/7		7/23		8/25		14/41		10/29		7/20		7/20		7/20		1/3		18/53	
15	3/11	3/7	4/13	3/7	14/41	3/7	16/43	9/22	2/5	9/23	13/32	3/8	7/17	9/25	5/12	9/26	8/19	1/3	17/40	5/14
16	11/39		8/25		1/3		10/29		11/31		4/11		4/11		4/11		4/11		1/3	
17	23/85	10/23	13/43	10/23	1/3	10/23	17/47	5/12	19/49	2/5	7/17	5/13	5/12	10/27	8/19	5/14	17/40	10/29	3/7	1/3
18	12/43		1/3		10/29		11/31		4/11		13/35		3/8		3/8		3/8		22/61	
19	7/26	11/25	14/47	11/25	16/49	11/25	6/17	11/26	20/53	11/27	2/5	11/28	8/19	11/29	17/40	11/30	3/7	11/31	19/44	11/32
20	13/47		16/49		11/31		4/11		13/35		14/37		5/13		5/13		5/13		5/13	
21	2/7	4/9	3/10	4/9	18/53	4/9	19/55	3/7	7/19	12/29	23/59	2/5	25/61	12/31	3/7	3/8	19/44	4/11	10/23	6/17
22	8/29		17/53		4/11		13/35		14/37		5/13		16/41		11/28		11/28		11/28	
23	15/53	13/29	5/16	13/29	1/3	13/29	20/59	13/30	22/61	13/31	8/21	13/32	2/5	13/33	28/67	13/34	10/23	13/35	7/16	13/36
24	3/11		6/19		21/59		14/37		5/13		16/41		17/43		2/5		2/5		2/5	
25	16/57	14/31	11/34	14/31	1/3	14/31	22/63	7/16	23/65	14/33	25/67	7/17	9/23	2/5	29/71	7/18	31/73	14/37	11/25	7/19
26	3/11		19/61		22/63		5/13		16/41		17/43		2/5		19/47		13/32		13/32	
27	17/61	5/11	1/3	5/11	13/38	5/11	24/67	15/34	5/14	3/7	26/71	5/12	28/73	15/37	2/5	15/38	32/77	5/13	34/79	3/8
28	2/7		4/13		23/67		26/69		17/43		2/5		19/47		20/49		7/17		7/17	
29	5/18	16/35	22/67	16/35	7/20	16/35	5/14	4/9	4/11	16/37	17/46	8/19	29/77	16/39	31/79	2/5	11/27	16/41	35/83	8/21
30	19/67		4/13		24/71		27/73		2/5		19/47		20/49		7/17		22/53		5/12	
31	19/69	17/37	23/71	17/37	5/14	17/37	4/11	17/38	17/46	17/39	3/8	17/40	14/37	17/41	32/83	17/42	2/5	17/43	12/29	17/44
32	20/71		13/41		26/75		4/11		31/79		20/49		7/17		22/53		23/55		8/19	
33	11/40	6/13	8/25	6/13	4/11	6/13	17/46	9/20	3/8	18/41	19/50	3/7	5/13	18/43	5/13	9/22	35/89	2/5	37/91	9/23
34	7/25		14/43		27/79		29/81		32/83		7/17		22/53		23/55		8/19		25/59	
35	2/7	19/41	25/79	19/41	29/81	19/41	3/8	19/42	19/50	19/43	5/13	19/44	7/18	19/45	16/41	19/46	16/41	19/47	2/5	19/48
36	12/43		1/3		16/47		6/17		11/29		36/89		23/55		8/19		25/59		26/61	
37	23/81	20/43	26/83	20/43	6/17	20/43	19/50	5/11	5/13	4/9	7/18	10/23	11/28	20/47	17/43	5/12	17/43	20/49	17/43	2/5
38	23/83		28/85		17/49		32/89		34/91		37/93		8/19		25/59		26/61		3/7	
39	24/85	7/15	5/16	7/15	31/89	7/15	5/13	21/46	7/18	21/47	11/28	7/16	23/58	3/7	2/5	21/50	2/5	7/17	2/5	21/52
40	13/47		29/89		6/17		34/93		7/19		38/97		41/99		26/61		3/7		28/65	
41	25/89	22/47	8/25	22/47	32/93	22/47	36/95	11/24	11/28	22/49	23/58	11/25	2/5	22/51	25/62	11/26	19/47	22/53	19/47	11/27
42	2/7		10/31		19/53		4/11		7/19		22/57		31/76		3/7		28/65		29/67	
43	7/25	23/49	17/52	23/49	34/97	23/49	37/99	23/50	23/58	23/51	2/5	23/52	25/62	23/53	13/32	23/54	20/49	23/55	20/49	23/56
44	27/95		31/97		4/11		7/19		22/59		8/21		39/97		27/64		29/67		10/23	
45	27/97	8/17	1/3	8/17	26/75	8/17	31/84	11/25	2/5	24/53	25/62	4/9	13/32	24/55	9/22	3/7	7/17	8/19	7/17	12/29
46	28/99		14/45		23/64		22/59		23/61		8/21		23/58		37/89		10/23		31/71	
47	5/18	25/53	9/28	25/53	10/29	25/53	35/96	23/52	28/71	5/11	13/32	25/56	9/22	25/57	7/17	25/58	29/70	25/59	22/53	24/59
48	20/71		6/19		27/76		23/61		8/21		5/13		9/23		16/39		30/71		32/73	
49	2/7	26/55	25/78	26/55	7/20	24/53	31/86	23/53	37/95	26/57	9/22	3/7	7/17	26/59	29/70	23/57	5/12	5/12	23/55	2/5
50	16/57		19/59		13/37		8/21		5/13		26/67		9/23		32/79		41/98		11/25	
51	8/29	9/19	29/91	9/19	11/31	5/11	23/63	24/55	5/13	25/57	7/17	25/58	29/70	23/57	5/12	23/58	31/74	27/73	8/19	25/62
52	3/11		20/61		23/67		5/13		26/67		9/23		28/71		2/5		7/17		3/7	
53	7/29	28/59	23/73	9/19	23/64	25/56	4/11	25/57	3/8	28/67	2/5	28/69	5/12	28/71	31/74	28/73	8/19	28/75	11/26	30/79
54	1/99		1/3		18/53		25/67		9/23		28/71		29/73		2/5		32/79		33/79	
55	1/99	29/61	1/99	29/63	4/11	13/29	25/68	29/67	13/35	29/69	36/91	29/71	31/74	29/73	8/19	29/75	11/26	29/77	17/40	10/27
56	1/99		21/65		23/67		36/97		28/71		29/73		2/5		31/77		11/27		23/55	
57	1/99	10/21	1/99	6/13	6/17	9/20	13/35	10/23	3/8	30/71	11/28	30/73	8/19	2/5	11/26	30/77	17/40	30/79	35/82	31/83
58	1/99		1/99		8/23		16/43		29/73		2/5		31/77		32/79		13/32		7/17	
59	1/99	31/65	1/99	31/67	33/94	31/69	3/8	31/71	14/37	31/73	26/67	31/75	16/39	31/77	17/40	31/79	35/82	31/81	3/7	32/85
60	1/99		1/99		25/71		23/64		2/5		31/77		32/79		11/27		38/93		12/29	

$k \setminus i$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	2/7	8/29	2/7	8/29	2/7	8/29	2/7	2/7	5/18	2/7	5/18	2/7	5/18	2/7	2/7	12/43	2/7	12/43	2/7	12/43
2	13/31		14/33		3/7		16/37		17/39		18/41		19/43		4/9		21/47		22/49	
3	3/10	1/3	5/16	1/3	11/34	6/19	1/3	3/10	1/3	4/13	1/3	13/41	1/3	14/43	15/47	1/3	15/49	1/3	5/16	1/3
4	2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53	
5	12/37	4/11	11/34	4/11	1/3	4/11	13/38	4/11	7/20	8/23	5/14	1/3	4/11	1/3	4/11	16/47	4/11	17/49	4/11	6/17
6	5/13		16/41		17/43		2/5		19/47		20/49		7/17		22/53		23/55		8/19	
7	15/41	13/35	15/43	14/37	13/38	5/13	7/20	5/13	5/14	5/13	4/11	5/13	17/46	10/27	3/8	5/14	19/50	6/17	5/13	19/53
8	16/43		17/45		18/47		19/49		20/51		21/53		2/5		23/57		24/59		25/61	
9	2/5	14/37	18/47	5/13	18/49	16/41	5/14	17/43	4/11	2/5	17/46	2/5	3/8	2/5	19/50	2/5	5/13	12/31	7/18	3/8
10	17/47		18/49		19/51		20/53		21/55		22/57		23/59		24/61		25/63		2/5	
11	7/17	5/13	7/17	16/41	21/53	17/43	21/55	2/5	17/46	19/47	3/8	20/49	19/50	7/17	5/13	7/17	7/18	7/17	11/28	7/17
12	6/17		19/53		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23	
13	8/19	16/41	8/19	17/43	8/19	2/5	24/59	19/47	24/61	20/49	8/21	7/17	5/13	22/53	7/18	23/55	11/28	8/19	23/58	8/19
14	19/55		20/57		21/59		22/61		23/63		24/65		25/67		26/69		27/71		28/73	
15	3/7	11/29	3/7	2/5	3/7	19/47	3/7	20/49	27/65	7/17	27/67	22/53	9/23	23/55	27/71	8/19	28/73	25/59	2/5	26/61
16	20/59		21/61		22/63		24/65		24/67		25/69		26/71		27/73		28/75		29/77	
17	19/44	11/31	10/23	3/8	10/23	13/33	10/23	7/17	10/23	22/53	30/71	23/55	30/73	8/19	2/5	25/59	30/77	26/61	30/79	3/7
18	1/3		16/47		17/49		6/17		26/71		27/73		7/19		22/59		3/8		3/8	
19	10/23	1/3	7/16	6/17	11/25	13/35	11/25	7/18	11/25	15/37	11/25	8/19	3/7	25/59	33/79	26/61	11/27	3/7	33/83	28/65
20	24/67		1/3		6/17		19/53		4/11		7/19		30/79		23/61		8/21		5/13	
21	7/16	12/35	11/25	1/3	23/52	13/37	4/9	7/19	4/9	5/13	4/9	2/5	4/9	17/41	36/83	3/7	36/85	28/65	12/29	29/67
22	27/71		26/73		1/3		4/11		7/19		22/59		23/61		8/21		5/13		26/67	
23	11/25	13/37	23/52	10/29	4/9	1/3	25/56	7/20	13/29	15/41	13/29	8/21	13/29	17/43	13/29	9/22	39/89	19/45	3/7	10/23
24	2/5		29/77		28/79		1/3		30/83		23/61		8/21		5/13		26/67		9/23	
25	23/52	14/39	4/9	11/31	25/56	11/31	13/29	1/3	9/20	15/43	14/31	4/11	14/31	17/45	14/31	9/23	14/31	19/47	42/95	5/12
26	13/32		32/81		31/83		6/17		28/85		32/89		5/13		26/67		9/23		28/71	
27	4/9	31/82	25/56	4/11	13/29	4/11	9/20	4/11	14/31	1/3	29/64	8/23	5/11	17/47	5/11	3/8	5/11	19/49	5/11	2/5
28	7/17		7/17		34/87		33/89		32/91		29/89		34/95		37/97		28/71		29/73	
29	37/85	16/43	13/29	3/8	9/20	13/35	14/31	13/35	29/64	17/47	5/11	1/3	31/68	8/23	16/35	9/25	16/35	19/51	16/35	5/13
30	5/12		5/12		37/91		12/31		7/19		9/26		1/3		15/43		25/66		2/5	
31	38/89	17/45	40/91	35/92	14/31	14/37	29/64	14/37	5/11	14/37	31/68	9/25	16/35	25/77	11/24	26/73	17/37	9/25	17/37	10/27
32	8/19		8/19		8/19		39/97		38/99		26/71		13/38		1/99		8/23		4/11	
33	13/31	18/47	41/95	8/21	43/97	19/49	5/11	5/13	31/68	5/13	16/35	5/13	11/24	11/31	17/37	1/99	35/76	4/11	6/13	29/79
34	17/40		17/40		17/40		37/89		39/98		8/21		31/86		7/20		1/99		1/99	
35	40/97	19/49	14/33	5/13	27/62	26/67	25/56	16/41	16/35	16/41	11/24	16/41	17/37	21/55	35/76	5/14	6/13	1/99	37/80	1/99
36	3/7		3/7		3/7		3/7		37/90		28/71		11/30		5/14		1/99		1/99	
37	28/69	20/51	38/91	26/67	3/7	9/23	29/66	28/71	40/89	17/43	17/37	17/43	35/76	17/43	6/13	26/71	37/80	1/99	19/41	1/99
38	28/65		19/44		19/44		19/44		36/85		2/5		9/23		35/94		4/11		1/99	
39	2/5	21/53	37/90	9/23	27/64	28/71	16/37	29/73	27/61	2/5	33/73	2/5	6/13	2/5	37/80	2/5	19/41	37/99	13/28	1/99
40	29/67		10/23		10/23		10/23		10/23		39/94		19/48		37/98		1/99		1/99	
41	19/47	9/23	15/37	28/71	37/89	29/73	26/61	2/5	17/39	31/77	7/16	19/47	5/11	19/47	19/41	19/47	13/28	31/80	20/43	1/99
42	10/23		31/71		7/16		7/16		7/16		41/98		20/49		2/5		3/8		1/99	
43	20/49	11/28	15/38	29/73	16/39	2/5	29/69	31/77	40/93	32/79	18/41	11/27	37/84	20/49	19/42	20/49	20/43	20/49	41/88	31/81
44	31/71		32/73		11/25		11/25		11/25		11/25		35/83		21/52		29/75		1/99	
45	7/17	23/58	7/17	2/5	2/5	31/77	17/41	32/79	39/92	11/27	3/7	34/83	19/43	7/17	39/88	7/17	5/11	7/17	7/15	7/17
46	32/73		11/25		34/77		23/52		23/52		23/52		31/73		22/53		11/27		1/99	
47	22/53	2/5	22/53	29/77	35/89	32/79	17/42	11/27	18/43	34/83	41/96	7/17	19/44	12/29	4/9	22/53	41/92	22/53	21/46	22/53
48	11/25		34/77		35/79		4/9		4/9		4/9		4/9		41/96		23/56		1/99	
49	23/55	25/62	23/55	3/8	37/93	32/81	35/88	34/83	9/22	7/17	19/45	12/29	39/92	37/89	10/23	38/91	21/47	23/55	43/96	23/55
50	34/77		35/79		4/9		37/83		25/56		25/56		25/56		40/93		8/19		12/29	
51	8/19	29/79	8/19	7/19	8/19	19/50	2/5	7/17	37/92	12/29	19/46	37/89	20/47	38/91	41/96	13/31	7/16	8/19	22/49	8/19
52	35/79		4/9		37/83		38/85		13/29		13/29		13/29		13/29		35/81		5/12	
53	25/59	30/79	41/97	35/94	41/99	35/94	40/99	1/99	1/99	37/89	13/32	38/91	5/12	13/31	3/7	8/19	40/93	41/97	11/25	25/59
54	4/9		37/83		38/85		13/29		40/89		9/20		40/91		9/20		2/5		13/33	
55	23/54	31/83	23/54	32/85	23/54	32/85	31/76	1/99	1/99	1/99	1/99	13/31	25/61	8/19	21/50	41/97	22/51	14/33	29/67	23/54
56	36/83		38/85		13/29		40/89		41/91		14/31		14/31		41/95		40/97		21/53	
57	3/7	32/85	3/7	11/29	3/7	1/99	3/7	1/99	1/99	1/99	1/99	8/19	1/99	41/97	1/99	14/33	11/26	23/54	23/53	41/96
58	40/93		13/29		40/89		41/91		14/31		43/95		43/95		43/97		14/33		28/69	
59	37/86	11/29	37/86	34/89	40/93	1/99	27/64	1/99	20/51	1/99	1/99	1/99	1/99	14/33	1/99	23/54	1/99	41/96	23/54	3/7
60	37/89		39/89		41/91		14/31		43/95		44/97		5/11		5/11		27/62		38/91	

$k \setminus i$	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7
2	23/51		24/53		5/11		26/57		27/59		28/61		29/63		6/13		31/67		32/69	
3	8/25	1/3	17/52	9/28	1/3	9/29	1/3	6/19	1/3	19/59	1/3	20/61	21/65	1/3	21/67	1/3	7/22	1/3	11/34	1/3
4	24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
5	20/57	19/53	20/59	4/11	19/56	4/11	10/29	4/11	7/20	4/11	11/31	6/17	23/64	12/35	4/11	23/67	4/11	8/23	4/11	25/71
6	25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77	
7	5/13	4/11	5/13	7/19	5/13	22/59	25/67	23/61	25/69	8/21	23/64	5/13	4/11	5/13	25/68	5/13	13/35	5/13	3/8	3/8
8	26/63		27/65		28/67		29/69		30/71		31/73		32/75		3/7		34/79		35/81	
9	11/28	7/19	23/58	22/59	2/5	23/61	2/5	8/21	2/5	5/13	2/5	26/67	30/77	9/23	30/79	28/71	3/8	29/73	14/37	2/5
10	27/67		28/69		29/71		30/73		31/75		32/77		33/79		34/81		35/83		36/85	
11	23/58	2/5	2/5	7/18	25/62	8/21	13/32	5/13	9/22	26/67	7/17	9/23	7/17	28/71	7/17	29/73	7/17	2/5	35/87	31/77
12	28/71		29/73		2/5		31/77		32/79		11/27		34/83		7/17		12/29		37/89	
13	2/5	8/19	25/62	8/19	13/32	16/39	9/22	2/5	7/17	9/23	29/70	28/71	5/12	29/73	31/74	2/5	8/19	31/77	8/19	32/79
14	29/75		30/77		31/79		32/81		33/83		2/5		35/87		36/89		37/91		38/93	
15	25/62	3/7	13/32	3/7	9/22	3/7	7/17	3/7	29/70	18/43	5/12	9/22	31/74	2/5	8/19	31/77	11/26	32/79	17/40	11/27
16	30/79		31/81		32/83		33/85		34/87		35/89		36/91		37/93		2/5		39/97	
17	31/81	28/65	33/83	29/67	7/17	10/23	29/70	10/23	5/12	10/23	31/74	10/23	8/19	20/47	11/26	5/12	17/40	20/49	35/82	2/5
18	3/8		32/85		11/29		34/89		5/13		12/31		37/95		38/97		13/33		21/53	
19	33/85	29/67	11/29	10/23	34/89	31/71	36/91	32/73	38/93	11/25	8/19	11/25	11/26	11/25	17/40	11/25	35/82	22/51	3/7	11/26
20	5/13		5/13		5/13		35/93		35/93		36/95		37/97		38/99		33/85		33/85	
21	36/89	10/23	36/91	31/71	12/31	32/73	36/95	11/25	37/97	34/77	13/33	35/79	28/69	4/9	38/91	4/9	3/7	4/9	37/86	36/85
22	9/23		11/28		11/28		11/28		38/99		37/99		37/99		35/93		25/66		8/21	
23	13/31	31/71	39/95	32/73	39/97	11/25	13/33	34/77	22/57	35/79	25/66	4/9	8/21	37/83	31/79	38/85	23/57	13/29	29/70	13/29
24	28/71		29/73		2/5		2/5		2/5		2/5		35/92		32/85		11/29		1/99	
25	42/97	3/7	14/33	11/25	37/89	34/77	31/76	35/79	2/5	4/9	31/79	37/83	11/31	38/85	4/11	13/29	17/45	40/89	9/23	41/91
26	29/73		2/5		31/77		32/79		13/32		13/32		13/32		19/49		1/99		1/99	
27	41/92	7/17	38/87	11/26	3/7	23/53	37/88	4/9	26/63	37/83	31/82	38/85	31/86	13/29	4/11	40/89	4/11	41/91	1/99	14/31
28	2/5		31/77		32/79		11/27		34/83		7/17		7/17		7/17		7/17		1/99	
29	16/35	21/53	35/78	11/27	37/84	23/55	16/37	3/7	16/41	25/57	38/91	13/29	3/8	40/89	3/8	41/91	17/46	14/31	1/99	43/95
30	31/77		32/79		11/27		34/83		7/17		12/29		37/89		37/89		37/91		12/31	
31	17/37	31/83	17/37	11/28	17/40	23/57	43/97	12/29	17/39	37/89	17/43	38/89	17/44	27/61	35/92	14/31	35/92	43/95	3/8	44/97
32	23/58		11/27		34/83		7/17		12/29		37/89		38/91		13/31		8/19		8/19	
33	6/13	10/27	6/13	11/29	18/41	34/89	3/7	35/89	18/43	37/91	9/22	13/31	2/5	3/7	9/23	41/95	18/47	43/97	19/49	5/11
34	18/49		23/59		7/17		12/29		37/89		38/91		13/31		8/19		41/97		14/33	
35	19/41	31/83	19/41	32/85	19/41	11/29	19/43	12/31	19/44	37/95	19/45	2/5	19/46	40/97	19/47	14/33	19/48	23/54	19/49	27/62
36	1/99		1/99		11/29		36/89		38/91		13/31		8/19		41/97		14/33		23/54	
37	13/28	1/99	20/43	1/99	20/43	1/99	20/43	1/99	4/9	1/99	10/23	1/99	20/47	1/99	5/12	28/69	20/49	38/91	2/5	3/7
38	1/99		1/99		1/99		32/89		39/97		8/19		41/97		14/33		23/54		41/96	
39	20/43	1/99	41/88	1/99	7/15	1/99	7/15	1/99	21/46	1/99	21/47	1/99	7/16	1/99	3/7	1/99	21/50	1/99	7/17	1/99
40	1/99		1/99		1/99		1/99		1/99		38/97		41/99		23/54		41/96		3/7	
41	41/88	1/99	7/15	1/99	43/92	1/99	22/47	1/99	22/47	1/99	11/24	1/99	22/49	1/99	11/25	1/99	22/51	1/99	11/26	1/99
42	1/99		1/99		1/99		1/99		1/99		1/99		1/99		31/76		3/7		40/93	
43	7/15	1/99	43/92	1/99	22/47	1/99	15/32	1/99	23/49	1/99	23/49	1/99	23/50	1/99	23/51	1/99	23/52	1/99	23/53	1/99
44	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		27/64	
45	43/92	1/99	22/47	1/99	15/32	1/99	23/49	1/99	39/83	1/99	8/17	1/99	8/17	1/99	6/13	1/99	24/53	1/99	4/9	1/99
46	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
47	22/47	21/53	15/32	1/99	23/49	1/99	39/83	1/99	8/17	1/99	41/87	1/99	25/53	1/99	25/53	1/99	25/54	1/99	5/11	1/99
48	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
49	11/24	23/55	23/49	4/11	39/83	1/99	8/17	1/99	41/87	1/99	25/53	1/99	17/36	1/99	26/55	1/99	26/55	1/99	13/28	1/99
50	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	9/20	8/19	23/50	8/19	8/17	1/99	41/87	1/99	25/53	1/99	17/36	1/99	26/55	1/99	44/93	1/99	9/19	1/99	9/19	1/99
52	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
53	23/51	25/59	33/73	12/29	6/13	13/35	25/53	1/99	17/36	1/99	26/55	1/99	44/93	1/99	9/19	1/99	46/97	1/99	28/59	1/99
54	21/53		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
55	23/52	23/54	24/53	31/76	44/97	8/21	25/54	1/99	26/55	1/99	44/93	1/99	9/19	1/99	46/97	1/99	28/59	1/99	19/40	1/99
56	39/98		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
57	37/85	3/7	4/9	3/7	5/11	39/97	41/90	14/37	13/28	1/99	9/19	1/99	46/97	1/99	28/59	1/99	19/40	1/99	29/61	1/99
58	2/5		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
59	24/55	40/93	7/16	40/93	25/56	27/64	26/57	23/58	37/81	35/92	27/58	1/99	28/59	1/99	19/40	1/99	29/61	1/99	39/82	1/99
60	39/97		23/57		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{1, 3, 3+k, 3+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2/9	1/3	1/3	1/4	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3
2	4/13	1/3	2/5	2/7	2/5	1/3	6/17	2/5	6/19	2/5	8/23	4/11	2/5	1/3	2/5	5/14	10/27	2/5	10/29	2/5
3	1/3	3/8	4/11	1/3	3/8	5/14	1/3	3/8	6/17	3/8	7/19	7/20	3/8	4/11	8/23	3/8	9/25	3/8	10/27	5/14
4	5/17	1/3	1/3	1/4	1/3	1/3	6/19	1/3	1/3	1/3	1/3	1/3	9/29	1/3	1/3	2/7	1/3	1/3	10/31	1/3
5	6/19	2/5	5/13	7/22	2/5	3/8	2/5	7/18	1/3	2/5	8/21	2/5	9/23	3/8	2/5	5/13	2/5	11/28	11/29	2/5
6	1/3	4/11	5/14	1/3	4/11	6/17	1/3	4/11	7/20	1/3	4/11	8/23	4/11	9/25	9/26	4/11	5/14	10/29	4/11	11/31
7	7/23	6/17	2/5	6/19	2/5	1/3	4/11	2/5	1/3	2/5	1/3	10/27	2/5	10/29	2/5	13/38	3/8	2/5	6/17	2/5
8	8/25	5/13	3/8	2/7	5/13	7/19	11/31	8/21	4/11	5/13	3/8	1/3	5/13	10/27	5/13	11/29	11/30	5/13	3/8	4/11
9	1/3	5/14	6/17	1/3	5/14	7/20	1/3	5/14	8/23	6/17	5/14	9/26	1/3	5/14	6/17	5/14	11/31	11/32	5/14	6/17
10	9/29	2/5	7/18	5/16	2/5	6/17	2/5	9/23	1/3	2/5	5/13	2/5	11/28	1/3	2/5	12/31	2/5	13/33	17/47	2/5
11	10/31	3/8	7/19	5/17	3/8	4/11	12/37	3/8	9/25	3/8	10/27	5/14	3/8	11/30	1/3	3/8	4/11	3/8	13/35	13/36
12	1/3	4/11	2/5	1/3	2/5	8/23	10/27	2/5	9/26	2/5	6/17	3/8	2/5	6/17	2/5	1/3	14/37	2/5	14/39	2/5
13	11/35	7/18	8/21	11/38	7/18	3/8	15/41	5/13	1/3	7/18	11/29	8/23	12/31	3/8	7/18	13/34	1/3	7/18	14/37	7/18
14	12/37	7/19	4/11	4/13	7/19	9/25	10/29	7/19	5/14	4/11	11/30	11/31	7/19	4/11	4/11	7/19	13/36	1/3	7/19	4/11
15	1/3	2/5	9/23	1/3	2/5	9/26	2/5	11/28	10/29	2/5	18/49	2/5	13/33	7/20	2/5	7/18	2/5	15/38	1/3	2/5
16	13/41	8/21	3/8	2/7	8/21	10/27	16/47	11/29	17/49	8/21	3/8	1/3	8/21	13/35	4/11	14/37	7/19	8/21	3/8	1/3
17	14/43	10/27	2/5	15/46	2/5	5/14	3/8	2/5	11/31	2/5	4/11	14/37	2/5	13/36	2/5	4/11	8/21	2/5	4/11	2/5
18	1/3	9/23	5/13	1/3	9/23	9/25	19/51	12/31	11/32	9/23	13/34	5/14	7/18	8/23	9/23	5/13	8/23	16/41	8/21	9/23
19	15/47	3/8	10/27	10/31	3/8	11/30	6/17	3/8	4/11	3/8	13/35	14/39	3/8	7/19	10/27	3/8	15/41	3/8	16/43	10/27
20	16/49	2/5	11/28	4/13	2/5	11/31	2/5	13/33	6/17	2/5	9/25	2/5	15/38	14/39	2/5	3/8	2/5	17/43	9/25	2/5
21	1/3	5/13	11/29	1/3	5/13	3/8	20/57	13/34	12/35	5/13	14/37	13/38	5/13	3/8	5/13	8/21	9/26	5/13	17/45	5/14
22	17/53	3/8	2/5	9/28	2/5	4/11	14/37	2/5	13/36	2/5	7/19	8/21	2/5	15/41	2/5	10/27	18/47	2/5	17/46	2/5
23	18/55	11/28	12/31	9/29	11/28	6/17	23/61	7/18	13/37	11/28	5/13	4/11	16/41	5/14	11/28	17/44	16/45	9/23	5/14	11/28
24	1/3	11/29	3/8	1/3	11/29	13/35	14/39	14/37	13/38	11/29	3/8	4/11	11/29	16/43	3/8	17/45	18/49	11/29	3/8	3/8
25	19/59	2/5	13/33	19/62	2/5	13/36	2/5	15/38	14/39	2/5	15/41	2/5	17/43	4/11	2/5	11/30	2/5	19/48	11/30	2/5
26	20/61	12/31	13/34	6/19	12/31	4/11	24/67	5/13	7/20	12/31	8/21	15/43	17/44	11/31	12/31	18/47	17/48	12/31	19/50	3/8
27	1/3	14/37	2/5	1/3	2/5	7/19	8/21	2/5	25/71	2/5	16/43	18/47	2/5	17/46	2/5	3/8	5/13	2/5	19/51	2/5
28	21/65	13/33	7/18	3/10	13/33	14/39	27/71	16/41	5/14	13/33	28/75	7/19	9/23	17/47	13/33	19/49	9/25	20/51	4/11	13/33
29	22/67	13/34	14/37	23/70	13/34	3/8	4/11	8/21	15/43	13/34	17/45	18/49	13/34	3/8	14/37	19/50	10/27	13/34	20/53	14/37
30	1/3	2/5	15/38	1/3	2/5	15/41	2/5	17/43	4/11	2/5	17/46	2/5	19/48	18/49	2/5	13/35	2/5	21/53	10/27	2/5
31	23/71	7/18	5/13	14/43	7/18	5/14	4/11	17/44	16/45	7/18	18/47	17/48	19/49	9/25	7/18	5/13	19/53	7/18	33/89	7/18
32	24/73	8/21	2/5	6/19	2/5	16/43	18/47	2/5	8/23	2/5	3/8	5/13	2/5	19/51	2/5	20/53	22/57	2/5	3/8	2/5
33	1/3	15/38	16/41	1/3	15/38	4/11	31/81	9/23	17/47	15/38	18/49	16/43	20/51	19/52	15/38	7/18	4/11	11/28	7/19	15/38
34	25/77	5/13	8/21	13/40	5/13	15/41	18/49	18/47	17/48	5/13	19/50	10/27	5/13	19/53	5/13	21/55	22/59	5/13	11/29	8/21
35	26/79	2/5	17/43	13/41	2/5	17/46	2/5	19/48	17/49	2/5	19/51	2/5	21/53	10/27	2/5	3/8	2/5	23/58	22/59	2/5
36	1/3	16/41	17/44	1/3	16/41	17/47	32/87	19/49	9/25	16/41	5/13	5/14	7/18	4/11	16/41	22/57	21/58	23/59	15/41	16/41
37	27/83	18/47	2/5	27/86	2/5	3/8	5/13	2/5	6/17	2/5	20/53	22/57	2/5	3/8	2/5	11/29	12/31	2/5	23/61	2/5
38	28/85	17/43	9/23	8/25	17/43	18/49	5/13	20/51	11/31	17/43	10/27	3/8	11/28	7/19	17/43	19/50	11/30	24/61	23/62	17/43
39	1/3	17/44	18/47	1/3	17/44	9/25	10/27	5/13	19/53	17/44	21/55	22/59	22/57	21/58	17/44	23/60	3/8	17/44	8/21	18/47
40	29/89	2/5	19/48	4/13	2/5	19/51	2/5	21/53	19/54	2/5	3/8	2/5	23/58	22/59	2/5	23/61	2/5	25/63	3/8	2/5
41	30/91	9/23	19/49	31/94	9/23	19/52	36/97	7/18	4/11	9/23	35/93	22/61	23/59	11/30	9/23	12/31	23/63	25/64	24/65	9/23
42	1/3	5/13	2/5	1/3	2/5	18/49	22/57	2/5	5/14	2/5	11/29	12/31	2/5	22/61	2/5	8/21	26/67	2/5	25/66	2/5
43	31/95	19/48	20/51	18/55	19/48	10/27	22/57	11/28	20/57	19/48	22/59	20/53	24/61	23/62	19/48	3/8	24/65	13/33	25/67	19/48
44	32/97	19/49	5/13	8/25	19/49	4/11	22/59	22/57	21/58	19/49	23/60	3/8	12/31	23/63	19/49	5/13	26/69	19/49	18/49	5/13
45	1/3	2/5	21/53	1/3	2/5	3/8	2/5	23/58	21/59	2/5	23/61	2/5	25/63	3/8	2/5	25/66	2/5	27/68	26/69	2/5
46	17/52	20/51	7/18	8/25	20/51	7/19	37/99	23/59	7/20	20/51	23/62	4/11	25/64	24/65	20/51	26/67	25/68	9/23	13/35	20/51
47	32/97	22/57	2/5	18/59	2/5	21/58	12/31	2/5	22/61	2/5	8/21	26/67	2/5	4/11	2/5	13/34	7/18	2/5	27/71	2/5
48	1/3	21/53	11/28	1/3	21/53	22/59	31/80	24/61	11/31	21/53	3/8	11/29	13/33	25/67	21/53	26/69	29/78	28/71	3/8	21/53
49	18/55	7/18	22/57	7/22	7/18	11/30	3/8	12/31	31/87	7/18	5/13	26/69	26/67	25/68	7/18	27/70	14/37	7/18	27/73	7/18
50	32/97	2/5	23/58	10/31	2/5	7/19	2/5	25/63	23/64	2/5	25/66	2/5	27/68	25/69	2/5	27/71	2/5	29/73	14/37	2/5
51	1/3	11/28	23/59	1/3	11/28	23/62	35/93	25/64	23/65	11/28	25/67	26/71	9/23	13/35	11/28	7/18	7/19	29/74	28/75	11/28
52	19/58	12/31	2/5	5/16	2/5	23/63	26/67	2/5	4/11	2/5	13/34	7/18	2/5	26/71	2/5	28/73	30/77	2/5	37/99	2/5
53	32/97	23/58	24/61	21/65	23/58	3/8	33/85	13/33	24/67	23/58	26/69	8/21	28/71	3/8	23/58	14/37	37/99	15/38	29/77	23/58
54	1/3	19/50	12/31	1/3	23/59	24/65	26/69	26/67	6/17	23/59	13/35	14/37	7/18	27/73	23/59	29/75	30/79	30/77	29/78	23/59
55	20/61	2/5	25/63	22/67	2/5	4/11	2/5	27/68	25/69	2/5	27/71	2/5	29/73	27/74	2/5	29/76	2/5	31/78	30/79	2/5
56	32/97	18/47	25/64	1/99	24/61	25/67	31/82	9/23	5/14	24/61	3/8	7/19	29/74	28/75	24/61	29/77	10/27	31/79	3/8	35/89
57	1/3	26/67	2/5	1/3	2/5	25/68	7/18	2/5	25/71	2/5	28/73	30/77	2/5	7/19	2/5	5/13	16/41	2/5	10/27	2/5
58	10/31	33/85	13/33	32/99	25/63	24/65	37/95	28/71	13/36	25/63	14/37	13/34	15/38	4/11	25/63	30/79	25/68	32/81	31/82	25/63
59	21/65	8/21	26/67	1/99	25/64	13/35	14/37	7/18	26/73	25/64	28/75	30/79	30/77	29/78	25/64	31/80	8/21	16/41	31/83	25/64
60	1/3	2/5	27/68	1/3	2/5	26/71	2/5	29/73	34/95	2/5	29/76	2/5	31/78	29/79	2/5	31/81	2/5	33/83	8/21	2/5

$k \setminus i$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49
2	4/11	3/8	2/5	6/17	2/5	7/19	14/37	2/5	14/39	2/5	16/43	8/21	2/5	4/11	2/5	3/8	18/47	2/5	18/49	2/5
3	3/8	11/30	11/31	3/8	4/11	3/8	13/35	13/36	3/8	7/19	14/39	3/8	15/41	3/8	16/43	4/11	3/8	17/46	17/47	3/8
4	1/3	1/3	1/3	1/3	13/41	1/3	1/3	3/10	1/3	1/3	14/43	1/3	1/3	1/3	1/3	1/3	17/53	1/3	1/3	4/13
5	12/31	2/5	13/33	13/34	2/5	7/18	2/5	15/38	5/13	2/5	16/41	2/5	17/43	17/44	2/5	9/23	2/5	19/48	19/49	2/5
6	11/32	4/11	6/17	4/11	13/36	13/37	4/11	14/39	7/20	4/11	5/14	15/43	4/11	16/45	4/11	17/47	17/48	4/11	9/25	6/17
7	15/43	14/37	2/5	14/39	2/5	17/48	8/21	2/5	4/11	2/5	19/53	18/47	2/5	18/49	2/5	21/58	5/13	2/5	10/27	2/5
8	13/34	13/35	5/13	14/37	7/19	5/13	3/8	5/13	8/21	16/43	5/13	17/45	17/46	18/47	3/8	5/13	19/50	19/51	5/13	20/53
9	12/35	5/14	13/37	13/38	5/14	7/20	6/17	5/14	15/43	5/14	16/45	6/17	5/14	17/48	17/49	5/14	6/17	9/26	5/14	19/54
10	7/18	2/5	15/38	5/13	2/5	16/41	2/5	17/43	17/44	2/5	9/23	2/5	19/48	19/49	2/5	20/51	2/5	21/53	7/18	2/5
11	3/8	7/19	14/39	3/8	15/41	3/8	16/43	4/11	3/8	17/46	17/47	3/8	18/49	3/8	19/51	19/52	3/8	10/27	4/11	3/8
12	13/38	8/21	2/5	4/11	2/5	15/43	18/47	2/5	18/49	2/5	6/17	5/13	2/5	10/27	2/5	5/14	22/57	2/5	22/59	2/5
13	5/13	3/8	7/18	8/21	22/59	17/44	17/45	7/18	18/47	3/8	19/49	19/50	7/18	5/13	20/53	7/18	21/55	7/18	22/57	11/29
14	7/19	15/41	5/14	7/19	4/11	16/45	7/19	17/47	17/48	18/49	9/25	7/19	19/52	19/53	7/19	4/11	4/11	7/19	21/58	7/19
15	16/41	2/5	17/43	11/31	2/5	9/23	2/5	19/48	25/67	2/5	20/51	2/5	21/53	7/18	2/5	11/28	2/5	23/58	23/59	2/5
16	8/21	16/43	8/21	17/45	17/46	8/21	3/8	6/17	19/50	19/51	8/21	20/53	10/27	8/21	3/8	7/19	11/29	22/59	8/21	23/61
17	1/3	18/47	2/5	18/49	2/5	17/48	5/13	2/5	10/27	2/5	19/53	22/57	2/5	22/59	2/5	21/58	12/31	2/5	3/8	2/5
18	17/44	1/3	9/23	18/47	9/23	19/49	26/71	9/23	5/13	14/37	7/18	21/55	9/23	22/57	29/79	23/59	23/60	9/23	12/31	8/21
19	3/8	17/46	1/3	3/8	10/27	3/8	19/51	19/52	3/8	10/27	4/11	3/8	7/19	3/8	22/59	11/30	3/8	23/62	23/63	3/8
20	9/23	2/5	19/48	1/3	2/5	20/51	2/5	21/53	19/54	2/5	11/28	2/5	23/58	15/41	2/5	24/61	2/5	25/63	11/29	2/5
21	18/47	3/8	5/13	19/50	1/3	5/13	20/53	5/13	21/55	3/8	5/13	11/29	30/83	23/60	23/61	5/13	8/21	3/8	5/13	25/66
22	10/27	5/13	2/5	10/27	2/5	1/3	22/57	2/5	22/59	2/5	21/58	12/31	2/5	3/8	2/5	23/63	26/67	2/5	26/69	2/5
23	19/49	5/14	20/51	5/13	11/28	7/18	1/3	11/28	22/57	11/28	23/59	31/86	11/28	12/31	34/89	25/64	5/13	11/28	26/67	35/94
24	11/29	19/51	29/79	20/53	3/8	11/29	3/8	1/3	11/29	3/8	11/29	23/61	23/62	11/29	3/8	6/17	25/66	25/67	11/29	26/69
25	30/79	2/5	21/53	11/30	2/5	11/28	2/5	23/58	1/3	2/5	24/61	2/5	25/63	23/64	2/5	13/33	2/5	27/68	25/69	2/5
26	5/13	11/31	12/31	21/55	11/31	22/57	11/29	12/31	23/60	1/3	12/31	8/21	12/31	5/13	7/19	12/31	13/34	18/49	27/70	27/71
27	3/8	22/57	2/5	3/8	2/5	3/8	12/31	2/5	3/8	2/5	1/3	26/67	2/5	26/69	2/5	25/68	7/18	2/5	14/37	2/5
28	7/18	4/11	11/28	4/11	13/33	23/59	4/11	24/61	12/31	13/33	25/64	1/3	13/33	26/67	13/33	9/23	5/14	13/33	7/18	7/19
29	21/55	3/8	13/34	11/29	14/37	13/34	23/61	17/47	8/21	14/37	13/34	25/66	1/3	13/34	14/37	13/34	27/71	3/8	13/34	14/37
30	13/35	2/5	23/58	13/35	2/5	18/47	2/5	25/63	13/35	2/5	13/33	2/5	27/68	1/3	2/5	28/71	2/5	29/73	27/74	2/5
31	22/57	13/36	7/18	23/60	7/19	12/31	13/36	7/18	5/13	13/36	26/67	13/34	7/18	27/70	1/3	7/18	28/73	7/18	29/75	4/11
32	14/37	12/31	2/5	23/61	2/5	14/37	26/67	2/5	14/37	2/5	31/84	7/18	2/5	14/37	2/5	1/3	30/77	2/5	30/79	2/5
33	23/59	11/30	24/61	7/19	15/38	25/64	7/19	13/33	31/84	15/38	9/23	7/19	28/71	7/18	15/38	29/74	1/3	15/38	30/77	31/81
34	23/60	3/8	5/13	8/21	8/21	5/13	25/66	5/13	13/34	8/21	5/13	27/71	14/39	28/73	8/21	5/13	29/76	1/3	5/13	8/21
35	3/8	2/5	25/63	3/8	2/5	3/8	2/5	27/68	3/8	2/5	37/96	2/5	29/73	3/8	2/5	15/38	2/5	31/78	32/97	2/5
36	12/31	23/63	16/41	5/13	8/21	26/67	15/41	16/41	27/70	15/41	7/18	4/11	16/41	29/75	15/41	30/77	5/13	16/41	31/80	1/3
37	8/21	26/67	2/5	25/66	2/5	8/21	7/18	2/5	27/71	2/5	8/21	30/77	2/5	8/21	2/5	35/96	16/41	2/5	8/21	2/5
38	25/64	24/65	13/33	16/43	17/43	9/23	13/35	28/71	16/43	17/43	29/74	16/43	15/38	22/59	17/43	31/79	16/43	32/81	16/41	17/43
39	5/13	26/69	17/44	13/34	18/47	27/70	14/37	17/44	28/73	18/47	17/44	29/76	31/82	5/13		17/44	31/81	4/11	32/83	18/47
40	17/45	2/5	27/68	26/69	2/5	17/45	2/5	29/73	17/45	2/5	31/82	2/5	31/78	17/45	2/5	12/31	2/5	33/83	30/83	2/5
41	26/67	25/68	9/23	17/46	9/23	7/18	17/46	9/23	29/75	3/8	30/77	17/46	9/23	31/80	17/46	16/41	18/49	9/23	33/85	17/46
42	13/34	7/18	2/5	27/71	2/5	18/47	30/77	2/5	29/76	2/5	18/47	16/41	2/5	31/81	2/5	18/47	34/87	2/5	18/47	2/5
43	9/23	13/35	28/71	3/8	19/48	29/74	28/75	15/38	3/8	19/48	31/79	3/8	32/81	3/8	19/48	11/28	3/8	17/43	35/93	19/48
44	27/70	14/37	19/49	28/73	5/13	29/75	30/79	19/49	5/13	5/13	31/80	8/21	19/49	32/83	5/13	19/49	33/86	18/49	17/44	5/13
45	19/50	2/5	29/73	14/37	2/5	19/50	2/5	31/78	30/79	2/5	19/50	2/5	33/83	19/50	2/5	35/92	2/5	35/88	19/50	2/5
46	7/18	27/73	29/74	19/51	37/97	30/77	29/78	20/51	3/8	37/99	16/41	19/51	20/51	33/85	16/43	34/87	19/51	20/51	7/18	19/51
47	28/73	30/77	2/5	29/76	2/5	5/13	16/41	2/5	31/81	2/5	5/13	34/87	2/5	33/86	2/5	5/13	9/23	2/5	5/13	2/5
48	38/99	28/75	15/38	29/77	21/53	31/79	3/8	32/81	20/53	21/53	11/28	32/85	17/43	20/53	21/53	35/89	20/53	36/91	19/53	21/53
49	29/75	30/79	7/18	5/13	22/57	31/80	8/21	7/18	32/83	22/57	33/85	34/89	7/18	17/44	22/57	7/18	5/13	7/18	12/31	22/57
50	29/76	2/5	31/78	30/79	2/5	21/55	2/5	33/83	8/21	2/5	21/55	2/5	35/88	21/55	2/5	3/8	2/5	37/93	21/55	2/5
51	30/77	29/78	31/79	3/8	11/28	16/41	31/83	11/28	3/8	11/28	34/87	3/8	11/28	7/18	35/93	9/23	3/8	11/28	37/95	3/8
52	5/13	16/41	2/5	31/81	2/5	32/83	34/87	2/5	33/86	2/5	22/57	9/23	2/5	5/13	2/5	22/57	38/97	2/5	37/96	2/5
53	11/29	3/8	32/81	31/82	23/58	11/28	32/85	17/43	11/29	23/58	35/89	17/45	36/91	11/29	23/58	37/94	36/95	19/48	11/29	23/58
54	31/80	8/21	23/59	22/59	12/31	33/85	34/89	23/59	17/44	12/31	7/18	18/47	23/59	12/31	12/31	37/95	38/99	23/59	19/49	12/31
55	31/81	2/5	33/83	8/21	2/5	23/60	2/5	35/88	34/89	2/5	23/60	2/5	37/93	18/47	2/5	23/60	2/5	39/98	23/60	2/5
56	16/41	31/83	11/28	32/85	24/61	34/87	3/8	35/89	23/61	5/13	9/23	35/93	24/61	23/61	31/82	38/97	23/61	24/61	23/59	35/93
57	32/83	34/87	2/5	33/86	2/5	17/44	9/23	2/5	5/13	2/5	12/31	38/97	2/5	37/96	2/5	12/31	20/51	2/5	22/57	2/5
58	8/21	27/73	17/43	11/29	25/63	34/89	17/45	36/91	35/92	25/63	37/94	36/95	19/48	8/21	25/63	13/33	19/50	21/53	8/21	25/63
59	33/85	34/89	25/64	3/8	31/80	7/18	18/47	25/64	12/31	26/67	37/95	38/99	25/64	19/49	26/67	23/59	5/13	25/64	33/85	26/67
60	33/86	2/5	35/88	34/89	2/5	5/13	2/5	37/93	18/47	2/5	5/13	2/5	39/98	38/99	2/5	5/13	2/5	39/98	5/13	2/5

$k \setminus i$	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3
2	20/53	5/13	2/5	10/27	2/5	11/29	22/57	2/5	22/59	2/5	8/21	12/31	2/5	3/8	2/5	13/34	26/67	2/5	26/69	2/5
3	18/49	3/8	19/51	19/52	3/8	10/27	4/11	3/8	7/19	3/8	22/59	11/30	3/8	23/62	23/63	3/8	24/65	3/8	25/67	25/68
4	1/3	1/3	18/55	1/3	1/3	1/3	1/3	1/3	21/65	1/3	1/3	5/16	1/3	1/3	22/67	1/3	1/3	1/3	1/3	1/3
5	20/51	2/5	21/53	7/18	2/5	11/28	2/5	23/58	23/59	2/5	24/61	2/5	25/63	25/64	2/5	13/33	2/5	27/68	9/23	2/5
6	4/11	19/53	19/54	4/11	5/14	4/11	21/58	21/59	4/11	22/61	11/31	4/11	23/64	23/65	4/11	24/67	4/11	25/69	5/14	4/11
7	23/63	22/57	2/5	22/59	2/5	25/68	12/31	2/5	3/8	2/5	27/73	26/67	2/5	26/69	2/5	29/78	7/18	2/5	14/37	2/5
8	5/13	21/55	3/8	5/13	11/29	22/59	23/60	23/61	5/13	8/21	3/8	5/13	25/66	5/13	13/34	26/69	5/13	27/71	3/8	28/73
9	19/55	5/14	20/57	5/14	21/59	7/20	5/14	11/31	6/17	5/14	23/65	23/66	5/14	6/17	8/23	5/14	25/71	5/14	26/73	13/37
10	11/28	2/5	23/58	23/59	2/5	24/61	2/5	25/63	25/64	2/5	13/33	2/5	27/68	9/23	2/5	28/71	2/5	29/73	29/74	2/5
11	7/19	3/8	22/59	11/30	3/8	23/62	23/63	3/8	24/65	3/8	25/67	25/68	3/8	13/35	26/71	3/8	27/73	3/8	28/75	7/19
12	22/61	12/31	2/5	3/8	2/5	4/11	26/67	2/5	26/69	2/5	26/71	7/18	2/5	14/37	2/5	7/19	30/77	2/5	30/79	2/5
13	7/18	23/60	23/61	12/31	8/21	7/18	5/13	25/66	26/67	13/34	7/18	27/70	27/71	7/18	28/73	7/18	29/75	29/76	7/18	5/13
14	11/30	4/11	7/19	23/63	23/64	7/19	4/11	24/67	25/68	25/69	7/19	26/71	13/36	7/19	27/74	9/25	7/19	4/11	7/19	29/79
15	24/61	2/5	25/63	25/64	2/5	13/33	2/5	27/68	9/23	2/5	28/71	2/5	29/73	29/74	2/5	15/38	2/5	31/78	31/79	2/5
16	23/62	8/21	3/8	8/21	25/66	25/67	8/21	26/69	13/35	27/71	3/8	8/21	14/37	28/75	8/21	29/77	29/78	30/79	3/8	8/21
17	4/11	26/67	2/5	26/69	2/5	26/71	7/18	2/5	14/37	2/5	7/19	30/77	2/5	30/79	2/5	10/27	16/41	2/5	8/21	2/5
18	25/64	5/13	9/23	26/67	13/34	9/23	27/70	9/23	7/18	28/73	9/23	29/75	29/76	30/77	5/13	9/23	31/80	31/81	16/41	32/83
19	24/65	3/8	25/67	25/68	3/8	13/35	10/27	3/8	27/73	3/8	28/75	10/27	3/8	29/78	29/79	3/8	10/27	3/8	31/83	31/84
20	13/33	2/5	27/68	9/23	2/5	28/71	2/5	29/73	29/74	2/5	15/38	2/5	31/78	31/79	2/5	32/81	2/5	33/83	11/28	2/5
21	5/13	13/34	26/69	5/13	27/71	3/8	28/73	14/37	5/13	29/76	29/77	5/13	30/79	5/13	31/81	31/82	5/13	8/21	32/85	33/86
22	25/68	7/18	2/5	14/37	2/5	27/73	30/77	2/5	30/79	2/5	10/27	16/41	2/5	8/21	2/5	16/43	34/87	2/5	34/89	2/5
23	9/23	27/70	11/28	7/18	4/11	29/74	29/75	11/28	30/77	5/13	31/79	31/80	11/28	16/41	32/83	11/28	33/85	34/89	34/87	17/44
24	13/35	11/29	3/8	7/19	14/37	28/75	11/29	29/77	29/78	11/29	3/8	3/8	31/82	31/83	11/29	32/85	3/8	11/29	3/8	33/89
25	28/71	2/5	29/73	19/51	2/5	15/38	2/5	31/78	23/60	2/5	32/81	2/5	33/83	11/28	2/5	17/43	2/5	35/88	35/89	2/5
26	12/31	28/73	23/64	29/75	29/76	12/31	5/13	30/79	12/31	31/81	14/37	32/83	8/21	12/31	33/86	11/29	17/44	34/89	12/31	5/13
27	27/73	30/77	2/5	30/79	2/5	29/78	16/41	2/5	8/21	2/5	31/83	34/87	2/5	34/89	2/5	3/8	9/23	2/5	18/47	2/5
28	29/74	20/53	13/33	30/77	35/93	31/79	31/80	13/33	16/41	7/19	11/28	33/85	13/33	34/87	27/73	35/89	7/18	13/33	9/23	12/31
29	14/39	29/76	29/77	13/34	30/79	3/8	13/34	31/82	37/99	8/21	32/85	13/34	11/29	3/8	34/89	17/45	13/34	35/92	35/93	13/34
30	15/38	2/5	31/78	29/79	2/5	32/81	2/5	33/83	31/84	2/5	17/43	2/5	35/88	23/61	2/5	36/91	2/5	37/93	27/70	2/5
31	7/18	5/13	29/78	31/80	31/81	7/18	32/83	34/95	33/85	33/86	7/18	17/44	33/89	7/18	5/13	7/18	12/31	18/47	7/18	37/96
32	29/78	16/41	2/5	8/21	2/5	31/83	34/87	2/5	34/89	2/5	3/8	9/23	2/5	18/47	2/5	35/93	38/97	2/5	38/99	2/5
33	31/79	29/80	15/38	16/41	16/43	11/28	29/78	15/38	34/87	36/95	35/89	7/18	15/38	9/23	16/43	37/94	37/95	15/38	38/97	18/49
34	5/13	31/81	15/41	5/13	8/21	4/11	33/86	11/29	5/13	34/89	34/93	5/13	35/92	5/13	18/47	36/95	5/13	37/97	35/93	38/99
35	32/81	2/5	33/83	31/84	2/5	17/43	2/5	35/88	33/89	2/5	36/91	2/5	37/93	35/94	2/5	19/48	2/5	39/98	37/99	2/5
36	16/41	32/83	8/21	33/85	31/86	16/41	17/44	4/11	7/18	5/13	16/41	12/31	17/47	37/95	37/96	16/41	19/49	4/11	23/59	22/57
37	1/3	34/87	2/5	34/89	2/5	3/8	9/23	2/5	18/47	2/5	35/93	38/97	2/5	38/99	2/5	37/98	20/51	2/5	5/13	2/5
38	11/28	1/3	17/43	34/87	5/13	35/89	11/30	17/43	9/23	3/8	37/94	7/19	17/43	38/97	37/97	13/33	19/50	17/43	20/51	3/8
39	17/44	33/86	1/99	17/44	18/47	31/82	5/13	33/91	17/44	18/47	18/49	37/96	37/97	17/44	38/99	31/84	22/57	13/34	17/44	5/13
40	17/43	2/5	35/88	1/99	2/5	36/91	2/5	37/93	35/94	2/5	19/48	2/5	39/98	37/99	2/5	21/53	2/5	39/98	3/8	2/5
41	34/87	17/44	9/23	7/18	1/99	9/23	12/31	9/23	37/95	35/96	9/23	19/49	3/8	23/59	35/93	9/23	33/85	19/52	25/64	29/75
42	17/47	9/23	2/5	18/47	2/5	1/99	38/97	2/5	38/99	2/5	18/49	20/51	2/5	5/13	2/5	25/66	31/79	2/5	37/96	2/5
43	35/89	3/8	36/91	9/23	19/48	37/94	1/99	19/48	38/97	22/57	13/33	27/73	19/48	20/51	20/53	28/71	13/35	19/48	31/79	10/27
44	19/49	5/13	18/49	12/31	5/13	19/49	37/96	1/99	19/49	5/13	11/29	22/57	33/91	19/49	5/13	10/27	29/75	23/60	19/49	37/96
45	5/13	2/5	37/93	9/25	2/5	19/48	2/5	39/98	1/99	2/5	21/53	2/5	39/98	3/8	2/5	21/53	2/5	39/98	35/93	2/5
46	9/23	10/27	20/51	37/95	19/51	38/97	19/49	20/51	23/59	1/99	20/51	33/85	5/13	25/64	32/87	29/74	7/18	10/27	34/87	24/65
47	5/13	38/97	2/5	5/13	2/5	19/52	20/51	2/5	5/13	2/5	1/99	31/79	2/5	37/96	2/5	13/36	11/28	2/5	22/57	2/5
48	37/94	20/53	19/48	36/97	21/53	13/33	19/53	21/53	20/51	21/53	28/71	1/99	21/53	31/79	31/80	28/71	22/59	21/53	11/28	11/29
49	7/18	37/96	10/27	19/49	22/57	7/18	22/57	10/27	33/85	22/57	7/18	29/75	1/99	7/18	22/57	7/18	31/80	26/71	7/18	22/57
50	35/93	2/5	39/98	21/55	2/5	22/57	2/5	39/98	4/11	2/5	21/53	2/5	39/98	1/99	2/5	23/58	2/5	39/98	7/19	2/5
51	38/97	3/8	11/28	23/59	3/8	20/51	22/59	11/28	25/64	3/8	31/79	7/18	11/28	34/87	1/99	11/28	37/95	11/28	9/23	33/89
52	22/57	20/51	2/5	22/57	2/5	35/94	31/79	2/5	22/57	2/5	7/19	11/28	2/5	22/57	2/5	1/99	35/89	2/5	9/29	2/5
53	13/33	11/29	21/53	21/58	23/58	28/71	11/29	21/53	37/99	23/58	28/71	21/58	23/58	11/28	23/58	15/38	1/99	23/58	35/89	33/85
54	23/59	22/57	22/59	33/85	12/31	23/59	29/75	22/59	7/18	29/75	23/59	31/80	22/59	37/95	12/31	23/59	26/67	1/99	23/59	12/31
55	20/53	2/5	39/98	23/60	2/5	14/37	2/5	39/98	23/60	2/5	31/80	2/5	39/98	11/30	2/5	23/58	2/5	39/98	1/99	2/5
56	20/51	23/61	24/61	25/64	23/61	31/79	3/8	24/61	34/87	23/61	11/28	29/78	24/61	9/23	9/29	35/89	23/59	24/61	38/97	1/99
57	12/31	31/79	2/5	29/75	2/5	12/31	11/28	2/5	12/31	2/5	28/75	35/89	2/5	12/31	2/5	23/62	24/61	2/5	12/31	2/5
58	28/71	8/21	21/53	8/21	25/63	28/71	8/21	23/58	34/93	25/63	15/38	8/21	23/58	35/93	25/63	32/81	23/63	25/63	24/61	25/63
59	25/64	37/96	25/64	7/18	26/67	25/64	31/80	3/8	37/95	31/80	25/64	26/67	3/8	23/59	31/80	25/64	33/85	3/8	16/41	26/67
60	5/13	2/5	39/98	5/13	2/5	11/29	2/5	39/98	5/13	2/5	27/71	2/5	39/98	5/13	2/5	33/85	2/5	39/98	24/65	2/5

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{1, 4, 4+k, 4+k+i\}$.

k \ i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1/4	2/7	2/7	3/11	1/4	2/7	2/7	3/11	2/7	2/7	5/18	5/19	2/7	2/7	3/11	2/7	2/7	7/25	3/11	2/7
2	1/3		1/3		6/19		1/3		8/23		9/25		10/27		11/29		12/31		13/33	
3	3/10	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3
4	3/11		3/10		7/23		8/25		1/3		10/29		11/31		4/11		13/35		14/37	
5	1/3	1/3	1/3	1/3	1/4	1/3	1/3	1/3	1/3	1/3	4/13	1/3	1/3	5/17	1/3	1/3	1/3	1/3	1/3	2/7
6	4/13		1/3		1/3		6/19		1/3		1/3		12/35		13/37		14/39		15/41	
7	2/7	6/17	4/13	6/17	5/18	6/17	1/3	6/17	4/13	6/17	1/3	1/3	1/3	10/31	11/32	4/13	6/17	10/31	6/17	12/37
8	1/3		1/3		9/31		1/3		1/3		12/37		1/3		14/41		15/43		16/45	
9	5/16	7/19	1/3	7/19	1/3	7/19	7/22	7/19	1/3	7/19	1/3	7/20	11/32	1/3	6/17	10/31	13/36	1/3	7/19	1/3
10	5/17		5/16		2/7		12/37		5/16		13/41		14/43		1/3		16/47		17/49	
11	1/3	8/21	1/3	8/21	4/13	8/21	1/3	8/21	1/3	8/21	11/32	4/11	6/17	8/23	13/36	1/3	7/19	1/3	3/8	13/41
12	6/19		1/3		1/3		8/25		1/3		1/3		10/31		1/3		1/3		18/53	
13	3/10	9/23	6/19	9/23	9/28	9/23	1/3	9/23	11/32	9/23	6/17	3/8	13/36	9/25	7/19	9/26	3/8	1/3	8/21	15/46
14	1/3		1/3		7/25		1/3		1/3		16/49		1/3		1/3		1/3		1/3	
15	7/22	2/5	1/3	2/5	1/3	2/5	11/32	2/5	6/17	2/5	13/36	5/13	7/19	10/27	3/8	5/14	8/21	10/29	17/44	1/3
16	7/23		7/22		14/47		16/49		1/3		5/16		19/55		7/22		19/59		20/61	
17	1/3	11/27	1/3	11/27	16/49	11/27	6/17	11/27	13/36	11/27	7/19	11/28	3/8	11/29	8/21	11/30	17/44	11/31	9/23	11/32
18	8/25		1/3		1/3		10/31		1/3		1/3		1/3		1/3		27/80		14/43	
19	4/13	12/29	8/25	12/29	17/53	12/29	19/55	12/29	7/19	12/29	3/8	2/5	8/21	12/31	17/44	3/8	9/23	4/11	19/48	6/17
20	1/3		1/3		2/7		1/3		1/3		1/3		22/63		1/3		29/84		1/3	
21	9/28	13/31	1/3	13/31	1/3	13/31	20/59	13/31	22/61	13/31	8/21	13/32	17/44	13/33	9/23	13/34	19/48	13/35	2/5	13/36
22	9/29		9/28		18/59		20/61		1/3		22/65		23/67		16/47		11/32		11/32	
23	1/3	14/33	1/3	14/33	19/61	14/33	1/3	14/33	23/65	14/33	25/67	7/17	9/23	2/5	19/48	7/18	2/5	14/37	21/52	7/19
24	10/31		1/3		1/3		14/41		1/3		8/23		25/71		17/49		9/25		6/17	
25	5/16	3/7	10/31	3/7	4/13	3/7	22/67	3/7	8/23	3/7	26/71	5/12	28/73	15/37	2/5	15/38	21/52	5/13	11/27	3/8
26	1/3		1/3		13/41		1/3		24/71		16/47		9/25		6/17		19/53		13/36	
27	11/34	16/37	1/3	16/37	1/3	16/37	24/71	16/37	25/73	16/37	9/25	8/19	29/77	16/39	31/79	2/5	11/27	16/41	23/56	8/21
28	11/35		11/34		14/43		1/3		16/47		33/94		6/17		19/53		4/11		7/19	
29	1/3	17/39	1/3	17/39	22/73	17/39	1/3	17/39	26/77	17/39	28/79	17/40	10/27	17/41	32/83	17/42	2/5	17/43	12/29	17/44
30	12/37		1/3		1/3		16/47		17/49		6/17		30/83		4/11		7/19		22/59	
31	6/19	18/41	12/37	18/41	24/77	18/41	27/79	18/41	28/81	18/41	29/83	3/7	31/85	18/43	11/29	9/22	35/89	2/5	37/91	9/23
32	1/3		1/3		26/79		17/49		6/17		19/53		4/11		7/19		22/59		23/61	
33	13/40	19/43	1/3	19/43	1/3	19/43	28/83	19/43	1/3	19/43	10/29	19/44	32/89	19/45	34/91	19/46	12/31	19/47	2/5	19/48
34	13/41		13/40		27/83		6/17		19/53		4/11		7/19		22/59		36/95		8/21	
35	1/3	4/9	1/3	4/9	3/10	4/9	1/3	4/9	31/89	4/9	32/91	10/23	11/31	20/47	7/19	5/12	37/97	20/49	13/33	17/47
36	14/43		1/3		1/3		31/89		4/11		7/19		22/59		23/61		8/21		5/13	
37	7/22	21/47	14/43	21/47	28/89	21/47	31/91	21/47	32/93	21/47	14/41	7/16	35/97	3/7	4/11	21/50	35/93	7/17	33/85	21/52
38	1/3		1/3		29/91		32/93		7/19		22/59		23/61		8/21		5/13		26/67	
39	15/46	22/49	1/3	22/49	1/3	22/49	32/95	22/49	33/97	22/49	35/99	11/25	26/71	22/51	23/64	11/26	13/35	22/53	23/60	11/27
40	15/47		15/46		6/19		33/97		4/11		23/61		8/21		5/13		26/67		9/23	
41	1/3	23/51	1/3	23/51	9/28	23/51	10/29	23/51	26/75	23/51	29/83	23/52	31/88	23/53	23/66	23/54	13/36	23/55	14/37	20/53
42	16/49		1/3		1/3		33/98		23/64		8/21		5/13		26/67		9/23		28/71	
43	8/25	24/53	16/49	24/53	19/58	24/53	18/53	24/53	12/35	24/53	27/76	4/9	29/79	24/55	6/17	3/7	9/25	8/19	7/19	12/29
44	1/3		1/3		18/59		12/35		27/76		35/93		26/67		9/23		28/71		29/73	
45	17/52	5/11	1/3	5/11	1/3	5/11	21/62	5/11	23/66	11/26	31/86	25/56	33/91	25/57	5/14	2/5	13/36	25/59	4/11	22/57
46	17/53		17/52		13/43		19/56		13/37		29/78		9/23		28/71		29/73		2/5	
47	1/3	26/57	1/3	26/57	10/31	26/57	11/32	26/57	23/66	23/54	6/17	13/29	25/68	26/59	13/36	13/30	19/52	26/61	7/19	23/59
48	18/55		1/3		1/3		29/84		8/23		17/47		29/75		29/73		2/5		31/77	
49	9/28	27/59	18/55	27/59	26/81	27/59	23/66	27/59	6/17	3/7	30/83	9/20	29/78	12/29	1/99	24/59	7/19	27/73	29/78	9/25
50	1/3		1/3		1/99		1/3		24/71		26/73		37/98		2/5		31/77		32/79	
51	19/58	28/61	1/3	28/61	1/3	28/61	6/17	25/57	5/14	25/58	13/36	14/31	27/74	5/12	1/99	25/61	3/8	28/75	29/78	4/11
52	19/59		29/89		4/13		1/3		1/99		9/25		19/51		30/77		32/79		11/27	
53	1/3	29/63	1/3	29/63	1/99	29/63	12/35	26/59	13/36	13/30	27/74	29/64	7/19	13/31	1/99	29/75	3/8	29/77	1/99	29/79
54	20/61		1/3		1/99		24/71		25/73		27/77		29/79		29/75		11/27		34/83	
55	10/31	6/13	13/40	6/13	1/99	6/13	31/91	27/61	27/74	27/62	7/19	30/73	29/78	2/5	29/78	30/77	3/8	30/79	1/99	10/27
56	1/3		1/3		1/99		1/99		1/99		24/73		10/27		21/55		33/83		7/17	
57	21/64	31/67	1/3	31/67	1/99	31/67	1/99	31/71	7/19	7/16	29/78	31/75	3/8	31/77	3/8	31/79	8/21	31/81	1/99	31/83
58	21/65		1/99		1/99		23/71		1/99		1/99		1/99		32/85		15/38		12/29	
59	1/3	32/69	1/99	32/69	1/99	32/69	1/99	32/73	14/39	32/75	3/8	32/77	31/82	32/79	31/82	32/81	1/99	32/83	1/99	32/85
60	22/67		1/99		1/99		1/99		1/99		1/99		1/99		1/99		23/59		36/89	

k \ i	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	2/7	8/29	2/7	2/7	9/32	3/11	2/7	2/7	5/18	2/7	2/7	11/39	11/40	2/7	2/7	12/43	2/7	2/7	13/46	13/47
2	2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53	
3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49
4	5/13		16/41		17/43		2/5		19/47		20/49		7/17		22/53		23/55		8/19	
5	1/3	1/3	1/3	1/3	1/3	13/41	1/3	1/3	15/49	1/3	1/3	1/3	1/3	1/3	3/10	1/3	1/3	1/3	1/3	1/3
6	16/43		17/45		18/47		19/49		20/51		21/53		2/5		23/57		24/59		25/61	
7	6/17	6/19	6/17	14/41	6/17	17/52	6/17	14/41	18/53	14/41	1/3	17/49	8/25	6/17	1/3	6/17	1/3	6/17	17/52	6/17
8	17/47		18/49		19/51		20/53		21/55		22/57		23/59		24/61		25/63		2/5	
9	7/19	12/37	7/19	1/3	7/19	1/3	7/19	16/47	7/19	17/49	21/59	6/17	21/61	19/53	1/3	4/11	17/52	7/19	1/3	7/19
10	6/17		19/53		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23	
11	8/21	1/3	8/21	1/3	8/21	16/47	8/21	17/49	8/21	6/17	8/21	19/53	24/65	4/11	24/67	7/19	8/23	22/59	24/71	23/61
12	19/55		20/57		21/59		22/61		23/63		24/65		25/67		26/69		27/71		28/73	
13	17/44	1/3	9/23	16/47	9/23	17/49	9/23	6/17	9/23	19/53	9/23	4/11	9/23	7/19	27/71	22/59	27/73	23/61	9/25	8/21
14	20/59		21/61		22/63		23/65		24/67		25/69		26/71		27/73		28/75		29/77	
15	9/23	16/47	19/48	17/49	2/5	6/17	2/5	19/53	2/5	4/11	2/5	7/19	2/5	22/59	2/5	23/61	30/77	8/21	30/79	5/13
16	1/3		22/65		23/67		8/23		26/71		26/73		9/25		4/11		29/79		10/27	
17	19/48	1/3	2/5	6/17	21/52	19/53	11/27	4/11	11/27	7/19	11/27	22/59	11/27	23/61	11/27	8/21	11/27	5/13	33/83	26/67
18	1/3		1/3		24/71		25/73		26/75		27/77		28/79		29/81		30/83		31/85	
19	2/5	12/35	21/52	1/3	11/27	13/37	23/56	7/19	12/29	22/59	12/29	23/61	12/29	8/21	12/29	5/13	12/29	26/67	12/29	9/23
20	1/3		1/3		1/3		26/77		27/79		28/81		30/83		6/17		32/87		32/89	
21	21/52	13/37	11/27	13/38	23/56	1/3	12/29	7/20	5/12	15/41	13/31	8/21	13/31	5/13	13/31	26/67	13/31	9/23	13/31	28/71
22	11/32		11/32		11/32		1/3		28/83		29/85		10/29		32/89		32/91		11/31	
23	11/27	14/39	23/56	7/20	12/29	14/41	5/12	1/3	13/31	15/43	27/64	4/11	14/33	17/45	14/33	9/23	14/33	28/71	14/33	29/73
24	6/17		6/17		6/17		6/17		1/3		22/65		30/89		11/31		34/95		8/23	
25	23/56	15/41	12/29	5/14	5/12	15/43	13/31	15/44	27/64	1/3	14/33	8/23	29/68	17/47	3/7	3/8	3/7	19/49	3/7	2/5
26	13/36		13/36		13/36		13/36		32/91		1/3		1/3		24/71		32/95		26/71	
27	12/29	16/43	5/12	4/11	13/31	16/45	27/64	8/23	14/33	1/3	29/68	1/3	3/7	17/49	31/72	9/25	16/37	19/51	16/37	5/13
28	7/19		7/19		7/19		7/19		7/19		34/97		13/40		1/3		1/3		27/77	
29	5/12	17/45	13/31	17/46	27/64	35/94	14/33	17/48	29/68	1/3	3/7	31/96	31/72	1/3	16/37	26/77	33/76	28/79	17/39	10/27
30	3/8		3/8		3/8		3/8		3/8		26/71		14/41		1/99		1/99		27/79	
31	13/31	18/47	27/64	3/8	14/33	18/49	29/68	9/25	3/7	17/50	31/72	8/25	16/37	14/41	33/76	1/99	17/39	27/79	7/16	29/83
32	8/21		8/21		8/21		8/21		8/21		8/21		35/96		15/44		1/99		1/99	
33	40/97	19/49	14/33	19/50	29/68	19/51	3/7	6/17	31/72	9/26	16/37	1/3	33/76	24/73	17/39	1/99	7/16	1/99	18/41	1/99
34	5/13		17/44		17/44		17/44		17/44		17/44		14/37		16/45		1/99		1/99	
35	28/69	20/51	38/91	5/13	3/7	19/52	31/72	19/53	16/37	14/41	33/76	19/55	17/39	29/86	7/16	1/99	18/41	1/99	37/84	1/99
36	26/67		9/23		9/23		9/23		9/23		9/23		9/23		35/94		1/99		1/99	
37	2/5	21/53	37/90	20/53	27/64	10/27	16/37	25/71	33/76	5/14	17/39	16/47	7/16	15/44	18/41	1/99	37/84	1/99	19/43	1/99
38	9/23		28/71		19/48		19/48		19/48		19/48		19/48		37/98		18/49		1/99	
39	28/71	2/5	15/37	19/53	37/89	3/8	26/61	27/77	17/39	9/25	7/16	27/77	18/41	1/99	37/84	17/49	19/43	1/99	39/88	1/99
40	28/71		29/73		2/5		2/5		2/5		2/5		2/5		2/5		13/34		1/99	
41	37/95	23/57	15/38	22/57	16/39	5/14	29/69	21/58	40/93	28/81	18/41	29/83	37/84	34/95	19/43	1/99	39/88	1/99	4/9	1/99
42	29/73		2/5		31/77		21/52		21/52		21/52		21/52		21/52		29/75		20/53	
43	5/13	24/59	32/81	26/77	32/79	22/59	17/41	28/81	39/92	30/83	42/97	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99
44	2/5		31/77		32/79		11/27		11/27		11/27		11/27		11/27		11/27		10/27	
45	3/8	2/5	16/41	22/59	11/28	11/30	17/42	30/83	18/43	29/81	37/88	1/99	19/44	1/99	4/9	1/99	41/92	1/99	21/47	1/99
46	31/77		32/79		11/27		34/83		23/56		23/56		23/56		23/56		23/56		15/38	
47	31/84	26/75	8/21	21/59	17/43	29/83	35/88	6/17	9/22	1/99	19/45	1/99	39/92	1/99	10/23	1/99	21/47	1/99	43/96	1/99
48	32/79		11/27		34/83		7/17		12/29		12/29		12/29		12/29		12/29		12/29	
49	16/43	27/77	3/8	29/83	17/44	6/17	2/5	31/87	37/92	1/99	19/46	1/99	20/47	1/99	41/96	1/99	7/16	1/99	22/49	1/99
50	11/27		34/83		7/17		12/29		37/89		5/12		5/12		27/65		5/12		5/12	
51	1/99	28/79	17/45	6/17	35/92	31/87	9/23	32/89	19/47	1/99	13/32	1/99	5/12	1/99	3/7	1/99	40/93	1/99	11/25	1/99
52	34/83		7/17		12/29		37/89		38/91		13/31		13/31		13/31		5/12		13/31	
53	1/99	29/81	1/99	30/83	1/99	32/89	1/99	1/99	19/48	1/99	20/49	1/99	25/61	1/99	21/50	1/99	22/51	1/99	29/67	1/99
54	7/17		12/29		37/89		38/91		13/31		8/19		27/64		27/64		37/88		13/33	
55	1/99	30/83	1/99	6/17	1/99	32/91	1/99	34/93	1/99	1/99	1/99	1/99	7/17	1/99	31/75	1/99	11/26	1/99	23/53	1/99
56	12/29		37/89		38/91		13/31		8/19		41/97		14/33		14/33		14/33		11/26	
57	1/99	31/85	1/99	32/87	1/99	32/89	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	22/53	1/99	5/12	1/99	23/54	1/99
58	37/89		38/91		13/31		8/19		41/97		14/33		23/54		23/54		23/54		38/91	
59	1/99	32/87	1/99	32/89	1/99	32/91	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	1/99	34/81	1/99
60	38/91		13/31		8/19		41/97		14/33		23/54		41/96		3/7		3/7		3/7	

k \ i	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	2/7	2/7	7/25	2/7	2/7	15/53	5/18	2/7	2/7	16/57	2/7	2/7	17/60	17/61	2/7	2/7	9/32	2/7	2/7	19/67
2	24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
3	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3
4	25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77	
5	9/28	1/3	1/3	5/16	1/3	1/3	1/3	1/3	1/3	4/13	1/3	1/3	1/3	1/3	1/3	23/71	1/3	1/3	25/79	1/3
6	26/63		27/65		28/67		29/69		30/71		31/73		32/75		3/7		34/79		35/81	
7	10/29	6/17	1/3	6/17	10/29	12/35	10/29	22/65	23/66	22/67	6/17	22/65	6/17	22/65	6/17	1/3	6/17	26/75	6/17	26/77
8	27/67		28/69		29/71		30/73		31/75		32/77		33/79		34/81		35/83		36/85	
9	1/3	7/19	21/62	7/19	11/32	7/19	23/66	7/19	6/17	14/39	5/14	7/20	13/36	25/73	27/74	1/3	7/19	25/73	7/19	25/73
10	28/71		29/73		2/5		31/77		32/79		11/27		34/83		7/17		12/29		37/89	
11	21/62	8/21	11/32	8/21	23/66	8/21	6/17	8/21	5/14	8/21	13/36	8/21	27/74	16/43	7/19	4/11	29/78	16/45	3/8	8/23
12	29/75		30/77		31/79		32/81		33/83		2/5		35/87		36/89		37/91		38/93	
13	27/77	5/13	23/66	26/67	6/17	9/23	5/14	9/23	13/36	9/23	27/74	9/23	7/19	9/23	29/78	9/23	3/8	18/47	31/82	3/8
14	30/79		31/81		32/83		33/85		34/87		35/89		36/91		37/93		2/5		39/97	
15	10/27	26/67	30/83	9/23	5/14	28/71	13/36	29/73	27/74	2/5	7/19	2/5	29/78	2/5	3/8	2/5	31/82	2/5	8/21	2/5
16	31/83		32/85		11/29		34/89		5/13		12/31		37/95		38/97		13/33		21/53	
17	33/85	9/23	11/29	28/71	33/89	29/73	27/74	2/5	7/19	31/77	29/78	32/79	3/8	11/27	31/82	11/27	8/21	11/27	33/86	11/27
18	32/87		33/89		34/91		35/93		36/95		36/95		37/97		38/99		22/57		33/85	
19	36/89	28/71	36/91	29/73	12/31	2/5	36/95	31/77	29/78	32/79	3/8	11/27	31/82	34/83	8/21	7/17	33/86	12/29	17/44	12/29
20	33/91		34/93		34/93		7/19		36/97		37/99		35/93		35/93		25/66		7/19	
21	13/31	29/73	39/95	2/5	39/97	31/77	13/33	32/79	22/57	11/27	25/66	34/83	8/21	7/17	33/86	12/29	17/44	37/89	7/18	38/91
22	7/19		34/95		35/97		35/97		4/11		26/71		31/84		34/95		1/99		1/99	
23	14/33	2/5	14/33	31/77	37/89	32/79	31/76	11/27	2/5	34/83	31/79	7/17	37/96	12/29	14/37	37/89	35/92	38/91	9/23	13/31
24	37/99		35/99		9/25		35/99		35/99		23/64		1/99		1/99		1/99		1/99	
25	3/7	31/77	3/7	32/79	3/7	11/27	37/88	34/83	26/63	7/17	15/37	12/29	39/98	37/89	15/43	38/91	33/94	13/31	17/47	8/19
26	26/75		9/25		29/81		28/79		29/81		1/99		1/99		1/99		1/99		1/99	
27	16/37	21/53	16/37	11/27	16/37	34/83	16/37	7/17	16/41	12/29	38/91	37/89	16/39	38/91	23/63	13/31	16/45	8/19	8/23	41/97
28	27/79		27/77		30/83		6/17		30/83		1/99		1/99		1/99		1/99		1/99	
29	17/39	21/55	17/39	11/28	17/39	23/57	17/39	12/29	17/39	37/89	3/7	38/91	17/44	13/31	17/45	8/19	17/46	41/97	35/94	14/33
30	28/81		30/83		1/99		32/87		32/89		1/99		1/99		1/99		1/99		1/99	
31	18/41	31/85	18/41	11/29	18/41	23/59	18/41	2/5	18/43	25/61	18/41	13/31	2/5	8/19	9/23	41/97	18/47	14/33	3/8	23/54
32	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
33	37/84	1/99	19/43	1/99	19/43	34/91	19/43	12/31	19/44	37/95	19/45	13/32	19/46	27/65	19/47	14/33	19/48	23/54	19/49	41/96
34	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
35	19/43	1/99	39/88	1/99	4/9	1/99	4/9	1/99	4/9	37/97	4/9	13/33	20/47	21/53	5/12	28/69	20/49	38/91	2/5	3/7
36	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
37	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	21/47	1/99	21/47	1/99	7/16	1/99	3/7	2/5	21/50	39/97	7/17	37/90
38	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
39	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	22/49	1/99	22/49	1/99	11/25	1/99	22/51	1/99	11/26	15/37
40	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
41	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	23/51	1/99	23/51	1/99	23/52	1/99	23/53	1/99
42	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
43	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	24/53	1/99	24/53	1/99	4/9	1/99
44	1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
45	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	5/11	1/99	5/11	1/99
46	32/93		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
47	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	26/57	1/99
48	11/29		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
49	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99
50	2/5		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99
52	4/11		26/71		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
53	23/52	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99	28/61	1/99
54	35/93		23/64		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
55	37/85	1/99	4/9	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99	28/61	1/99	40/87	1/99
56	33/85		13/35		31/86		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
57	24/55	1/99	7/16	1/99	25/56	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99	28/61	1/99	40/87	1/99	29/63	1/99
58	2/5		23/60		29/79		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
59	3/7	1/99	25/57	1/99	40/91	1/99	13/29	1/99	27/59	1/99	11/24	1/99	28/61	1/99	40/87	1/99	29/63	1/99	41/89	1/99
60	37/90		28/71		14/37		1/99		1/99		1/99		1/99		1/99		1/99		1/99	

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{1, 5, 5+k, 5+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2/7	1/4	3/11	1/3	1/3	1/3	4/13	2/7	5/17	1/3	1/3	1/3	6/19	3/10	7/23	1/3	1/3	1/3	8/25	4/13
2	1/4	1/4	4/17	2/7	2/7	2/7	2/7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	7/27	2/7	2/7	2/7
3	1/3	2/7	1/4	4/13	1/3	1/3	5/19	5/17	1/3	1/3	7/23	2/7	7/22	1/3	1/3	2/7	4/13	1/3	1/3	5/16
4	2/5	5/16	4/13	5/14	2/5	2/5	1/3	1/3	7/19	2/5	2/5	9/26	8/23	3/8	2/5	2/5	11/31	5/14	11/29	2/5
5	4/11	1/3	6/19	2/5	2/5	3/8	6/17	1/3	2/5	2/5	8/21	4/11	8/23	2/5	2/5	5/13	10/27	5/14	2/5	2/5
6	1/3	4/13	2/7	4/11	4/11	6/17	1/3	6/19	1/3	4/11	4/11	8/23	1/3	8/25	4/11	4/11	5/14	10/29	1/3	13/38
7	4/13	2/7	4/15	1/3	1/3	1/3	6/19	16/53	4/13	1/3	1/3	1/3	8/25	4/13	11/37	1/3	1/3	1/3	10/31	5/16
8	5/14	7/24	5/17	1/3	5/14	5/14	3/10	7/22	8/23	5/14	1/3	4/13	1/3	5/14	5/14	6/19	10/31	11/32	5/14	5/14
9	2/5	4/13	1/3	7/19	2/5	2/5	10/31	8/23	3/8	2/5	2/5	1/3	5/14	11/29	2/5	2/5	11/32	4/11	13/34	2/5
10	3/8	9/28	9/29	2/5	2/5	8/21	4/11	11/34	2/5	2/5	5/13	10/27	1/3	2/5	2/5	12/31	3/8	4/11	2/5	2/5
11	6/17	1/3	9/31	3/8	3/8	4/11	8/23	1/3	13/37	3/8	10/27	5/14	10/29	1/3	3/8	3/8	4/11	6/17	12/35	3/8
12	1/3	6/19	2/7	6/17	6/17	8/23	1/3	8/25	1/3	6/17	6/17	10/29	1/3	1/3	1/3	6/17	6/17	12/35	1/3	12/37
13	7/19	3/10	7/22	8/23	7/19	7/19	8/25	1/3	5/14	7/19	15/43	1/3	11/32	4/11	7/19	1/3	1/3	13/37	7/19	7/19
14	2/5	11/36	12/37	3/8	2/5	2/5	13/41	5/14	11/29	2/5	2/5	15/46	4/11	13/34	2/5	2/5	1/3	7/19	5/13	2/5
15	8/21	6/19	4/13	2/5	2/5	5/13	15/43	7/22	2/5	2/5	12/31	3/8	16/49	2/5	2/5	7/18	14/37	1/3	2/5	2/5
16	4/11	13/40	12/41	8/21	8/21	10/27	5/14	13/42	17/47	8/21	3/8	4/11	6/17	9/26	8/21	14/37	7/19	14/39	1/3	8/21
17	8/23	1/3	4/13	4/11	4/11	5/14	10/29	1/3	11/32	4/11	4/11	6/17	12/35	8/23	4/11	4/11	14/39	7/20	8/23	1/3
18	3/8	8/25	1/3	5/14	3/8	3/8	1/3	11/32	4/11	3/8	19/53	12/35	13/37	7/19	3/8	8/23	8/23	5/14	16/43	3/8
19	2/5	4/13	15/47	11/29	2/5	2/5	10/31	9/26	13/34	2/5	2/5	1/3	7/19	5/13	2/5	2/5	1/3	16/43	17/44	2/5
20	5/13	5/16	15/49	2/5	2/5	12/31	18/53	29/92	2/5	2/5	7/18	21/58	21/64	2/5	2/5	16/41	8/21	21/64	2/5	2/5
21	10/27	8/25	3/10	5/13	5/13	3/8	4/11	21/65	7/19	5/13	14/37	7/19	1/3	11/31	5/13	8/21	16/43	4/11	23/67	5/13
22	5/14	17/52	10/31	10/27	10/27	4/11	6/17	1/3	13/37	10/27	7/19	14/39	7/20	5/14	10/27	10/27	4/11	16/45	5/14	5/14
23	11/29	1/3	18/55	4/11	11/29	11/29	12/35	13/37	7/19	11/29	23/63	7/20	5/14	16/43	11/29	5/14	16/45	17/47	3/8	11/29
24	2/5	10/31	6/19	13/34	2/5	2/5	1/3	21/62	5/13	2/5	2/5	14/41	24/67	17/44	2/5	2/5	10/29	3/8	19/49	2/5
25	12/31	5/16	18/59	2/5	2/5	7/18	1/3	21/64	2/5	2/5	16/41	6/17	33/98	2/5	2/5	9/23	27/73	17/50	2/5	2/5
26	3/8	19/60	11/35	12/31	12/31	14/37	23/65	1/3	25/67	12/31	8/21	16/43	33/97	13/36	12/31	18/47	3/8	28/81	27/77	12/31
27	4/11	10/31	1/3	3/8	3/8	7/19	14/39	14/41	5/14	3/8	16/43	4/11	8/23	17/47	3/8	3/8	18/49	9/25	4/11	3/8
28	13/34	21/64	21/65	7/19	13/34	13/34	7/20	5/14	16/43	13/34	27/73	16/45	17/47	3/8	13/34	4/11	9/25	19/52	20/53	13/34
29	2/5	1/3	21/67	5/13	2/5	2/5	14/41	1/3	17/44	2/5	2/5	8/23	27/77	19/49	2/5	2/5	6/17	15/41	7/18	2/5
30	7/18	12/37	4/13	2/5	2/5	16/41	1/3	14/43	2/5	2/5	9/23	9/26	27/79	2/5	2/5	20/51	30/83	31/89	2/5	2/5
31	14/37	6/19	13/40	7/18	7/18	8/21	26/75	1/3	29/77	7/18	18/47	3/8	28/81	15/41	7/18	5/13	20/53	32/91	31/87	7/18
32	7/19	23/72	24/73	14/37	14/37	16/43	4/11	8/23	17/47	14/37	3/8	18/49	6/17	19/52	14/37	20/53	10/27	4/11	7/19	14/37
33	5/13	12/37	8/25	16/43	5/13	5/13	16/45	7/20	3/8	5/13	31/83	9/25	19/52	20/53	5/13	7/19	4/11	7/19	11/29	5/13
34	2/5	25/76	24/77	17/44	2/5	2/5	8/23	27/82	19/49	2/5	2/5	6/17	9/26	7/18	2/5	2/5	5/14	33/92	23/59	2/5
35	16/41	1/3	7/22	2/5	2/5	9/23	16/47	1/3	2/5	2/5	20/51	9/26	31/89	2/5	2/5	11/28	11/31	33/94	2/5	2/5
36	8/21	14/43	1/3	16/41	16/41	18/47	29/85	17/50	11/29	16/41	5/13	11/30	32/91	17/46	16/41	22/57	11/29	17/48	35/97	16/41
37	16/43	7/22	27/83	8/21	8/21	3/8	31/87	6/17	19/52	8/21	20/53	10/27	5/14	7/19	8/21	11/29	22/59	22/61	23/62	8/21
38	17/44	9/28	27/85	3/8	17/44	17/44	9/25	31/90	20/53	17/44	35/93	4/11	7/19	11/29	17/44	16/43	11/30	23/62	8/21	17/44
39	2/5	14/43	5/16	19/49	2/5	2/5	6/17	31/92	7/18	2/5	2/5	5/14	20/57	23/59	2/5	2/5	22/61	11/31	25/64	2/5
40	9/23	29/88	16/49	2/5	2/5	20/51	9/26	16/47	2/5	2/5	11/28	20/57	10/29	2/5	2/5	24/61	11/31	21/59	2/5	2/5
41	18/47	1/3	8/25	9/23	9/23	5/13	18/53	19/55	37/97	9/23	22/57	9/25	7/20	19/51	9/23	12/31	8/21	19/53	35/96	9/23
42	3/8	16/49	10/31	18/47	18/47	20/53	34/97	5/14	7/19	18/47	11/29	22/59	22/61	23/62	18/47	8/21	3/8	4/11	25/67	18/47
43	19/49	8/25	6/19	20/53	19/49	19/49	4/11	17/50	11/29	19/49	25/66	11/30	21/58	8/21	19/49	3/8	24/65	25/67	13/34	19/49
44	2/5	31/96	17/53	7/18	2/5	2/5	5/14	1/3	23/59	2/5	2/5	22/61	28/81	25/64	2/5	2/5	4/11	24/67	9/23	2/5
45	20/51	16/49	1/3	2/5	2/5	11/28	20/57	20/59	2/5	2/5	24/61	11/31	22/63	2/5	2/5	13/33	24/67	6/17	2/5	2/5
46	5/13	17/53	25/78	20/51	20/51	22/57	10/29	7/20	23/60	20/51	12/31	22/63	23/65	3/8	20/51	26/67	37/99	21/58	25/68	20/51
47	20/53	1/3	28/89	5/13	5/13	11/29	28/81	19/54	23/62	5/13	8/21	3/8	4/11	25/67	5/13	13/34	26/69	26/71	3/8	5/13
48	7/18	18/55	6/19	11/29	7/18	25/66	34/95	33/98	8/21	7/18	35/92	24/65	31/87	13/34	7/18	26/69	13/35	3/8	28/73	7/18
49	2/5	9/28	19/58	23/59	2/5	2/5	22/61	19/56	25/64	2/5	2/5	4/11	34/97	9/23	2/5	2/5	26/71	13/36	29/74	2/5
50	11/28	29/91	19/59	2/5	2/5	24/61	11/31	11/32	2/5	2/5	13/33	24/67	6/17	2/5	2/5	28/71	13/36	26/73	2/5	2/5
51	22/57	26/81	12/37	23/60	11/28	12/31	22/63	23/65	3/8	11/28	26/67	6/17	5/14	25/68	11/28	7/18	4/11	9/25	27/73	11/28
52	11/29	19/59	5/16	3/8	22/57	8/21	11/32	29/85	25/67	22/57	13/34	25/69	26/71	3/8	22/57	28/73	14/37	7/19	29/77	22/57
53	23/59	1/3	10/31	8/21	23/59	35/92	8/23	1/3	13/34	23/59	26/69	13/35	26/75	28/73	23/59	14/37	28/75	4/11	5/13	23/59
54	2/5	20/61	1/3	25/64	2/5	2/5	4/11	23/68	9/23	2/5	2/5	26/71	28/79	29/74	2/5	2/5	7/19	4/11	31/79	2/5
55	24/61	10/31	28/87	2/5	2/5	13/33	24/67	8/23	2/5	2/5	28/71	13/36	31/87	2/5	2/5	15/38	4/11	14/39	2/5	2/5
56	12/31	13/40	1/99	25/66	24/61	26/67	6/17	5/14	25/68	24/61	7/18	26/73	9/25	27/73	35/89	30/77	14/39	29/80	10/27	35/89
57	8/21	10/31	1/99	12/31	12/31	13/34	8/23	19/56	3/8	12/31	28/73	34/95	7/19	29/77	12/31	5/13	30/79	10/27	31/82	12/31
58	25/64	21/65	1/5	13/34	16/41	34/89	15/43	1/3	28/73	16/41	14/37	28/75	13/38	5/13	16/41	30/79	3/8	31/86	32/83	23/59
59	2/5	1/3	1/99	9/23	2/5	2/5	25/71	25/73	29/74	2/5	2/5	7/19	9/26	31/79	2/5	2/5	10/27	11/31	11/28	2/5
60	13/33	22/67	1/99	2/5	2/5	28/71	13/36	13/37	2/5	2/5	15/38	4/11	28/79	2/5	2/5	32/81	15/41	30/83	2/5	2/5

$k \setminus i$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1	9/29	1/3	1/3	1/3	10/31	5/16	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47
2	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7
3	3/10	10/31	1/3	1/3	11/37	11/35	1/3	1/3	13/41	4/13	13/40	1/3	1/3	7/23	7/22	1/3	1/3	8/25	5/16
4	2/5	13/36	4/11	13/34	2/5	2/5	15/41	7/19	5/13	2/5	2/5	17/46	16/43	17/44	2/5	2/5	19/51	3/8	19/49
5	12/31	3/8	4/11	2/5	2/5	7/18	14/37	7/19	2/5	2/5	16/41	8/21	16/43	2/5	2/5	9/23	18/47	3/8	2/5
6	4/11	4/11	6/17	12/35	1/3	4/11	4/11	14/39	7/20	14/41	17/49	4/11	4/11	16/45	8/23	16/47	4/11	4/11	9/25
7	7/23	1/3	1/3	1/3	12/37	6/19	4/13	1/3	1/3	1/3	14/43	7/22	14/45	1/3	1/3	1/3	16/49	8/25	16/51
8	11/35	1/3	13/37	5/14	16/47	13/40	14/41	5/14	5/14	17/52	1/3	8/23	5/14	5/14	16/49	17/50	6/17	5/14	21/61
9	2/5	13/37	7/19	5/13	2/5	2/5	5/14	16/43	17/44	2/5	2/5	17/47	3/8	19/49	2/5	2/5	19/52	20/53	7/18
10	7/18	14/37	7/19	2/5	2/5	16/41	8/21	16/43	2/5	2/5	9/23	18/47	3/8	2/5	2/5	20/51	5/13	20/53	2/5
11	3/8	7/19	14/39	7/20	19/53	3/8	16/43	4/11	16/45	8/23	3/8	3/8	18/49	9/25	6/17	3/8	3/8	10/27	4/11
12	6/17	6/17	7/20	14/41	1/3	20/61	6/17	6/17	8/23	16/47	1/3	21/62	6/17	6/17	9/26	18/53	1/3	6/17	6/17
13	13/40	14/41	5/14	7/19	7/19	1/3	8/23	17/47	7/19	11/31	17/50	6/17	19/52	7/19	23/67	19/55	5/14	7/19	7/19
14	2/5	5/14	16/43	17/44	2/5	2/5	17/47	3/8	19/49	2/5	2/5	19/52	20/53	7/18	2/5	2/5	7/19	11/29	23/59
15	16/41	8/21	21/59	2/5	2/5	9/23	18/47	3/8	2/5	2/5	20/51	5/13	20/53	2/5	2/5	11/28	22/57	11/29	2/5
16	8/21	16/43	4/11	16/45	8/21	8/21	3/8	18/49	9/25	25/68	8/21	20/53	10/27	4/11	5/14	8/21	11/29	22/59	11/30
17	4/11	4/11	16/45	8/23	16/47	4/11	4/11	9/25	6/17	9/26	13/38	4/11	4/11	5/14	20/57	28/81	4/11	4/11	22/61
18	1/3	8/23	17/47	3/8	3/8	17/50	6/17	19/52	3/8	3/8	19/55	5/14	7/19	3/8	4/11	7/20	22/61	23/62	3/8
19	2/5	1/3	3/8	19/49	2/5	2/5	25/71	20/53	7/18	2/5	2/5	7/19	11/29	23/59	2/5	2/5	23/62	8/21	25/64
20	9/23	18/47	1/3	2/5	2/5	20/51	5/13	13/37	2/5	2/5	11/28	22/57	29/79	2/5	2/5	24/61	12/31	8/21	2/5
21	18/47	3/8	18/49	1/3	5/13	5/13	20/53	10/27	4/11	5/13	5/13	11/29	22/59	11/30	31/83	5/13	8/21	3/8	24/65
22	10/27	18/49	9/25	5/14	1/3	10/27	10/27	4/11	5/14	20/57	10/27	10/27	11/30	22/61	11/31	32/91	10/27	24/65	4/11
23	5/14	5/14	19/52	20/53	11/29	1/3	5/14	7/19	11/29	11/29	7/20	22/61	23/62	11/29	11/29	23/65	4/11	25/67	11/29
24	2/5	10/29	20/53	7/18	2/5	2/5	1/3	11/29	23/59	2/5	2/5	15/43	8/21	25/64	2/5	2/5	33/91	13/34	9/23
25	20/51	5/13	1/3	2/5	2/5	11/28	22/57	1/3	2/5	2/5	24/61	12/31	31/89	2/5	2/5	13/33	26/67	17/47	2/5
26	5/13	20/53	10/27	11/32	12/31	22/57	11/29	22/59	1/3	12/31	12/31	8/21	3/8	33/92	12/31	12/31	13/34	26/69	13/35
27	3/8	10/27	4/11	4/11	6/17	3/8	22/59	11/30	4/11	1/3	3/8	3/8	24/65	4/11	24/67	3/8	3/8	13/35	26/71
28	4/11	4/11	7/19	11/29	13/34	4/11	4/11	23/62	8/21	13/34	1/3	4/11	25/67	13/34	13/34	5/14	26/71	3/8	13/34
29	2/5	6/17	11/29	23/59	2/5	2/5	6/17	8/21	25/64	2/5	2/5	1/3	13/34	9/23	2/5	2/5	26/75	28/73	29/74
30	11/28	3/8	31/89	2/5	2/5	24/61	12/31	12/35	2/5	2/5	13/33	26/67	1/3	2/5	2/5	28/71	7/18	9/26	2/5
31	22/57	11/29	17/48	13/37	7/18	12/31	8/21	3/8	13/37	7/18	26/67	13/34	26/69	1/3	7/18	7/18	28/73	14/37	32/91
32	14/37	22/59	11/30	7/19	7/19	14/37	3/8	24/65	7/19	7/20	14/37	26/69	13/35	7/19	1/3	14/37	14/37	28/75	7/19
33	7/19	11/30	23/62	8/21	5/13	7/19	7/19	25/67	13/34	5/13	23/64	7/19	3/8	28/73	5/13	1/3	7/19	29/77	5/13
34	2/5	14/39	36/97	25/64	2/5	2/5	14/39	13/34	9/23	2/5	2/5	14/39	28/73	29/74	2/5	2/5	32/97	5/13	31/79
35	24/61	18/49	35/99	2/5	2/5	13/33	25/66	7/20	2/5	2/5	28/71	7/18	7/20	2/5	2/5	15/38	30/77	1/3	2/5
36	12/31	8/21	19/53	5/14	16/41	26/67	13/34	31/86	5/14	16/41	7/18	28/73	14/37	5/14	16/41	30/77	5/13	30/79	1/3
37	8/21	3/8	24/65	16/43	8/21	8/21	26/69	13/35	16/43	4/11	8/21	14/37	28/75	16/43	8/23	8/21	30/79	3/8	16/43
38	16/43	24/65	25/67	13/34	17/44	16/43	13/35	3/8	28/73	17/44	16/43	16/43	29/77	5/13	17/44	21/59	16/43	31/82	32/83
39	2/5	4/11	35/96	9/23	2/5	2/5	4/11	3/8	29/74	2/5	2/5	4/11	5/13	31/79	2/5	2/5	4/11	32/83	11/28
40	13/33	13/36	34/95	2/5	2/5	28/71	29/78	32/89	2/5	2/5	15/38	37/97	16/45	2/5	2/5	32/81	16/41	16/45	2/5
41	26/67	13/34	31/86	17/47	9/23	7/18	28/73	4/11	17/47	9/23	30/77	5/13	4/11	17/47	9/23	16/41	32/83	8/21	8/23
42	13/34	26/69	26/71	3/8	18/47	18/47	14/37	28/75	3/8	3/8	18/47	30/79	3/8	3/8	9/25	18/47	8/21	32/85	3/8
43	3/8	13/35	3/8	28/73	19/49	3/8	28/75	29/77	5/13	19/49	3/8	3/8	31/82	32/83	19/49	3/8	3/8	11/29	17/44
44	2/5	26/71	13/36	29/74	2/5	2/5	18/49	31/84	31/79	2/5	2/5	18/49	31/83	11/28	2/5	2/5	18/49	17/44	35/89
45	28/71	9/25	32/89	2/5	2/5	15/38	15/41	33/91	2/5	2/5	32/81	32/87	9/25	2/5	2/5	17/43	11/29	9/25	2/5
46	7/18	28/73	21/58	19/52	20/51	30/77	5/13	4/11	19/52	20/51	16/41	32/83	23/63	19/52	20/51	34/87	17/44	19/52	19/52
47	28/73	14/37	7/19	29/77	5/13	5/13	30/79	3/8	20/53	5/13	5/13	8/21	32/85	20/53	29/79	5/13	34/89	17/45	20/53
48	20/53	28/75	29/77	5/13	7/18	20/53	3/8	31/82	32/83	7/18	20/53	32/85	11/29	17/44	7/18	20/53	20/53	35/92	12/31
49	2/5	7/19	4/11	31/79	2/5	2/5	10/27	15/41	11/28	2/5	2/5	10/27	32/87	35/89	2/5	2/5	10/27	35/93	37/94
50	15/38	4/11	14/39	2/5	2/5	32/81	4/11	30/83	2/5	2/5	17/43	17/46	4/11	2/5	2/5	36/91	36/97	4/11	2/5
51	30/77	5/13	29/80	7/19	11/28	16/41	32/83	26/71	7/19	11/28	34/87	17/44	11/30	7/19	11/28	9/23	12/31	7/19	7/19
52	5/13	30/79	10/27	31/82	22/57	32/83	8/21	16/43	11/29	22/57	37/96	34/89	17/45	11/29	11/29	22/57	18/47	36/95	11/29
53	11/29	3/8	31/82	32/83	23/59	11/29	32/85	11/29	17/44	23/59	11/29	17/45	35/92	12/31	23/59	36/95	36/95	37/97	19/49
54	2/5	10/27	15/41	11/28	2/5	2/5	16/43	32/87	35/89	2/5	2/5	19/51	17/46	37/94	2/5	2/5	22/59	36/97	13/33
55	32/81	15/41	30/83	2/5	2/5	17/43	11/30	4/11	2/5	2/5	36/91	34/93	34/93	2/5	2/5	19/48	19/51	11/30	2/5
56	16/41	31/83	31/85	27/73	24/61	34/87	17/44	11/30	23/62	24/61	9/23	12/31	7/19	27/73	24/61	38/97	19/49	27/73	23/62
57	32/83	8/21	16/43	11/29	12/31	17/44	34/89	34/91	35/92	12/31	12/31	18/47	3/8	8/21	12/31	29/75	38/99	19/50	8/21
58	8/21	32/85	11/29	17/44	7/18	8/21	17/45	35/92	12/31	25/64	8/21	36/95	37/97	19/49	16/41	8/21	19/50	13/34	33/85
59	2/5	16/43	32/87	35/89	2/5	2/5	34/91	17/46	37/94	2/5	2/5	3/8	36/97	13/33	2/5	2/5	3/8	19/51	28/71
60	17/43	32/87	4/11	2/5	2/5	36/91	31/84	34/93	2/5	2/5	19/48	24/65	18/49	2/5	2/5	21/53	31/84	31/84	2/5

$k \setminus i$	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3
2	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7
3	16/49	1/3	1/3	17/55	17/53	1/3	1/3	19/59	6/19	19/58	1/3	1/3	5/16	10/31	1/3	1/3	11/34	7/22	22/67	1/3	1/3
4	2/5	2/5	3/8	20/53	7/18	2/5	2/5	23/61	11/29	23/59	2/5	2/5	25/66	8/21	25/64	2/5	2/5	27/71	13/34	9/23	2/5
5	2/5	20/51	5/13	20/53	2/5	2/5	11/28	22/57	11/29	2/5	2/5	24/61	12/31	8/21	2/5	2/5	13/33	26/67	13/34	2/5	2/5
6	6/17	9/26	7/20	4/11	4/11	5/14	20/57	10/29	4/11	4/11	22/61	11/31	22/63	25/71	4/11	4/11	24/67	6/17	8/23	4/11	4/11
7	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3
8	1/3	19/55	5/14	5/14	1/3	20/59	7/20	5/14	5/14	1/3	11/32	23/65	5/14	26/75	23/68	8/23	5/14	5/14	27/80	25/73	13/37
9	2/5	2/5	7/19	11/29	23/59	2/5	2/5	23/62	8/21	25/64	2/5	2/5	25/67	13/34	9/23	2/5	2/5	3/8	28/73	29/74	2/5
10	2/5	11/28	22/57	11/29	2/5	2/5	24/61	12/31	8/21	2/5	2/5	13/33	26/67	13/34	2/5	2/5	28/71	7/18	28/73	2/5	2/5
11	5/14	25/69	3/8	22/59	11/30	22/61	11/31	3/8	3/8	24/65	4/11	24/67	3/8	3/8	13/35	26/71	13/36	31/85	3/8	28/75	7/19
12	20/57	10/29	20/59	1/3	6/17	6/17	22/63	11/32	22/65	27/79	6/17	6/17	8/23	12/35	24/71	6/17	6/17	13/37	26/75	13/38	26/77
13	20/59	7/20	22/61	7/19	7/19	11/32	23/65	4/11	7/19	29/81	8/23	5/14	26/71	7/19	15/43	13/37	9/25	7/19	7/19	9/26	28/79
14	2/5	2/5	23/62	8/21	25/64	2/5	2/5	25/67	13/34	9/23	2/5	2/5	3/8	28/73	29/74	2/5	2/5	29/77	5/13	31/79	2/5
15	2/5	24/61	12/31	8/21	2/5	2/5	13/33	26/67	13/34	2/5	2/5	28/71	7/18	28/73	2/5	2/5	15/38	30/77	5/13	2/5	2/5
16	22/61	8/21	8/21	3/8	24/65	4/11	8/21	8/21	26/69	13/35	26/71	33/89	8/21	14/37	28/75	7/19	4/11	8/21	30/79	3/8	10/27
17	11/31	22/63	8/23	4/11	4/11	24/67	6/17	8/23	4/11	4/11	13/36	26/73	13/37	17/49	4/11	4/11	14/39	28/79	7/20	4/11	4/11
18	29/82	23/65	4/11	25/67	3/8	8/23	5/14	26/71	3/8	3/8	13/37	9/25	7/19	3/8	3/8	28/79	29/80	10/27	3/8	26/71	5/14
19	2/5	2/5	25/67	13/34	9/23	2/5	2/5	3/8	28/73	29/74	2/5	2/5	29/77	5/13	31/79	2/5	2/5	31/82	32/83	11/28	2/5
20	2/5	13/33	26/67	13/34	2/5	2/5	28/71	7/18	28/73	2/5	2/5	15/38	30/77	5/13	2/5	2/5	32/81	16/41	32/83	2/5	2/5
21	4/11	5/13	13/34	26/69	13/35	26/71	5/13	28/73	14/37	28/75	7/19	5/13	5/13	30/79	3/8	10/27	5/13	5/13	8/21	32/85	16/43
22	24/67	17/48	10/27	10/27	26/71	13/36	31/87	35/97	10/27	7/19	4/11	14/39	5/14	10/27	10/27	15/41	30/83	5/14	10/27	10/27	32/87
23	17/46	5/14	26/71	3/8	11/29	35/97	9/25	7/19	29/77	11/29	5/14	29/80	10/27	31/82	11/29	5/14	31/85	16/43	11/29	11/29	32/89
24	2/5	2/5	3/8	28/73	29/74	2/5	2/5	29/77	5/13	31/79	2/5	2/5	31/82	32/83	11/28	2/5	2/5	11/29	17/44	35/89	2/5
25	2/5	28/71	7/18	37/99	2/5	2/5	15/38	30/77	5/13	2/5	2/5	32/81	16/41	32/83	2/5	2/5	17/43	34/87	17/44	2/5	2/5
26	37/98	12/31	28/73	14/37	28/75	31/84	12/31	5/13	30/79	3/8	10/27	12/31	32/83	8/21	32/85	16/43	12/31	17/44	34/89	17/45	34/91
27	13/36	19/53	3/8	28/75	7/19	4/11	31/86	3/8	3/8	10/27	15/41	30/83	3/8	3/8	16/43	32/87	4/11	4/11	3/8	34/91	17/46
28	13/34	9/25	7/19	29/77	13/34	37/99	29/80	10/27	31/82	13/34	26/71	31/85	16/43	11/29	13/34	4/11	11/30	34/91	35/92	13/34	4/11
29	2/5	2/5	19/53	5/13	31/79	2/5	2/5	24/65	32/83	11/28	2/5	2/5	11/29	17/44	35/89	2/5	2/5	35/92	12/31	37/94	2/5
30	2/5	15/38	30/77	34/95	2/5	2/5	32/81	16/41	30/83	2/5	2/5	17/43	34/87	31/82	2/5	2/5	36/91	9/23	12/31	2/5	2/5
31	7/18	7/18	5/13	30/79	3/8	35/92	7/18	32/83	8/21	32/85	22/59	7/18	17/44	34/89	17/45	15/41	7/18	12/31	18/47	36/95	3/8
32	4/11	14/37	14/37	3/8	10/27	15/41	4/11	14/37	32/85	16/43	32/87	23/63	14/37	17/45	34/91	17/46	34/93	14/37	14/37	3/8	36/97
33	5/13	28/79	10/27	31/82	5/13	31/83	31/85	16/43	11/29	5/13	23/61	11/30	34/91	35/92	5/13	34/93	7/19	3/8	37/97	5/13	18/49
34	2/5	2/5	28/81	32/83	11/28	2/5	2/5	15/43	17/44	35/89	2/5	2/5	33/92	12/31	37/94	2/5	2/5	36/97	19/49	13/33	2/5
35	2/5	32/81	16/41	15/44	2/5	2/5	17/43	34/87	11/31	2/5	2/5	36/91	9/23	5/14	2/5	2/5	19/48	38/97	18/49	2/5	2/5
36	16/41	16/41	32/83	8/21	29/85	11/29	16/41	17/44	34/89	11/30	17/46	16/41	12/31	18/47	36/95	35/97	16/41	19/49	38/99	19/50	31/87
37	1/3	8/21	8/21	32/85	16/43	31/87	8/21	8/21	17/45	34/91	17/46	23/63	8/21	36/95	3/8	36/97	26/71	8/21	19/50	35/93	19/51
38	17/44	31/95	16/43	11/29	17/44	17/44	32/89	34/91	35/92	17/44	35/93	7/19	3/8	37/97	17/44	18/49	27/73	35/93	13/34	17/44	31/84
39	2/5	2/5	1/99	17/44	35/89	2/5	2/5	32/91	12/31	37/94	2/5	2/5	17/48	19/49	13/33	2/5	2/5	31/87	33/85	28/71	2/5
40	2/5	17/43	34/87	1/99	2/5	2/5	36/91	9/23	1/99	2/5	2/5	19/48	38/97	29/83	2/5	2/5	21/53	20/51	13/36	2/5	2/5
41	9/23	34/87	17/44	34/89	1/99	9/23	9/23	12/31	18/47	11/32	37/97	9/23	19/49	38/99	4/11	19/51	34/87	33/85	5/13	8/21	35/96
42	9/26	18/47	34/89	17/45	3/8	1/99	18/47	18/47	36/95	3/8	5/14	3/8	18/47	19/50	35/93	19/51	19/52	31/81	8/21	20/53	37/99
43	19/49	26/75	3/8	35/92	12/31	19/49	1/99	3/8	37/97	19/49	19/49	4/11	35/93	13/34	31/80	25/66	19/52	20/53	23/60	31/80	10/27
44	2/5	2/5	25/71	12/31	37/94	2/5	2/5	1/99	19/49	13/33	2/5	2/5	1/99	33/85	28/71	2/5	2/5	19/53	7/18	28/71	2/5
45	2/5	36/91	9/23	9/25	2/5	2/5	19/48	38/97	1/99	2/5	2/5	21/53	20/51	1/99	2/5	2/5	21/53	31/79	1/99	2/5	2/5
46	20/51	9/23	12/31	18/47	6/17	20/51	38/97	19/49	38/99	1/99	20/51	20/51	33/85	5/13	1/99	23/60	29/74	7/18	37/96	28/79	3/8
47	13/37	5/13	18/47	36/95	20/53	1/99	5/13	38/99	19/50	20/53	1/99	5/13	5/13	8/21	20/53	19/54	29/79	5/13	21/55	14/37	3/8
48	7/18	19/53	20/53	37/97	19/49	7/18	18/53	20/53	13/34	33/85	7/18	1/99	20/53	23/60	7/18	7/18	34/95	14/37	38/99	33/85	35/92
49	2/5	2/5	10/27	19/49	13/33	2/5	2/5	19/55	33/85	28/71	2/5	2/5	1/99	7/18	28/71	2/5	2/5	1/99	37/95	15/38	2/5
50	2/5	19/48	37/97	4/11	2/5	2/5	21/53	20/51	4/11	2/5	2/5	21/53	31/79	1/99	2/5	2/5	23/58	11/28	1/99	2/5	2/5
51	11/28	38/97	19/49	29/79	7/19	11/28	20/51	33/85	5/13	1/99	11/28	31/79	7/18	37/96	1/99	11/28	11/28	37/95	22/57	1/99	5/13
52	34/97	22/57	38/99	19/50	14/37	29/83	22/57	5/13	8/21	14/37	1/99	22/57	37/96	21/55	11/29	1/99	22/57	22/57	31/81	11/29	1/99
53	23/59	9/25	11/29	13/34	33/85	23/59	12/35	11/29	23/60	7/18	37/95	1/99	11/29	38/99	37/95	23/59	1/99	11/29	5/13	23/59	23/59
54	2/5	2/5	22/59	25/66	28/71	2/5	2/5	22/59	7/18	28/71	2/5	2/5	1/99	37/95	15/38	2/5	2/5	1/99	23/59	32/81	2/5
55	2/5	21/53	37/99	11/30	2/5	2/5	21/53	23/60	34/95	2/5	2/5	23/58	11/28	1/99	2/5	2/5	23/58	35/89	1/99	2/5	2/5
56	35/89	20/51	33/85	7/19	21/58	24/61	31/79	7/18	27/73	31/86	24/61	11/28	37/95	22/57	1/99	24/61	35/89	23/59	29/75	1/99	29/90
57	6/17	12/31	5/13	8/21	8/21	23/65	12/31	37/96	21/55	27/71	1/99	29/75	22/57	31/81	27/71	1/99	12/31	29/75	23/60	8/21	1/99
58	25/64	8/21	8/21	23/60	7/18	16/41	28/79	27/71	38/99	37/95	23/59	8/23	8/21	5/13	23/59	16/41	1/99	8/21	37/96	16/41	25/64
59	2/5	2/5	3/8	37/99	28/71	2/5	2/5	3/8	35/92	15/38	2/5	2/5	35/99	23/59	32/81	2/5	2/5	1/99	16/41	32/81	2/5
60	2/5	21/53	3/8	7/19	2/5	2/5	23/58	35/93	7/19	2/5	2/5	23/58	5/13	6/17	2/5	2/5	25/63	24/61	1/99	2/5	2/5

Table. Lower bounds on $\overline{\alpha}(S)$ for $S = \{2, 3, 3+k, 3+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/4	1/3	1/3	2/7	1/3	1/3	2/7	1/3	1/3	7/26	1/3	1/3	2/7	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3
2	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
3	1/3	3/11	1/3	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3
4	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
5	1/3	4/13	2/7	5/17	1/3	1/3	1/3	6/19	3/10	7/23	1/3	1/3	1/3	8/25	4/13	9/29	1/3	1/3	1/3	10/31	5/16	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3
6	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
7	2/7	1/3	1/3	4/13	1/3	1/3	3/10	1/3	1/3	11/38	1/3	1/3	4/13	1/3	1/3	13/44	1/3	1/3	4/13	1/3	1/3	3/10	1/3	1/3	4/13	1/3	1/3	17/56	1/3	1/3	4/13	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3
8	2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7		2/7	
9	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3
10	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
11	1/3	6/19	5/17	7/23	1/3	1/3	1/3	8/25	4/13	9/29	1/3	1/3	1/3	10/31	5/16	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3
12	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
13	3/10	1/3	1/3	6/19	1/3	1/3	4/13	1/3	1/3	3/10	1/3	1/3	5/16	1/3	1/3	17/56	1/3	1/3	6/19	1/3	1/3	19/62	1/3	1/3	6/19	1/3	1/3	21/68	1/3	1/3	6/19	1/3	1/3	23/74	1/3	1/3	6/19	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	27/86	1/3	1/3	6/19	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3
14	3/10		3/10		3/10		8/27		3/10		3/10		3/10		3/10		11/37		3/10		3/10		3/10		3/10		14/47		3/10		3/10		3/10		3/10		17/57		3/10		3/10		3/10		20/67		3/10		3/10		3/10		3/10		23/77		3/10			
15	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3
16	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
17	1/3	8/25	7/23	9/29	1/3	1/3	1/3	10/31	7/23	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3
18	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
19	4/13	1/3	1/3	8/25	1/3	1/3	5/16	1/3	1/3	19/62	1/3	1/3	6/19	1/3	1/3	21/68	1/3	1/3	7/22	1/3	1/3	23/74	1/3	1/3	8/25	1/3	1/3	5/16	1/3	1/3	8/25	1/3	1/3	27/86	1/3	1/3	8/25	1/3	1/3	29/92	1/3	1/3	8/25	1/3	1/3	31/98	1/3	1/3	8/25	1/3	1/3	20/63	1/3	1/3	8/25	1/3	1/3	7/22	1/3	1/3
20	4/13		4/13		4/13		10/33		4/13		4/13		4/13		4/13		4/13		4/13		4/13		15/49		4/13		4/13		4/13		4/13		18/59		4/13		4/13		4/13		4/13		4/13		4/13		23/75		4/13		4/13		4/13		4/13		26/85			
21	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3
22	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
23	1/3	10/31	9/29	11/35	1/3	1/3	1/3	12/37	9/29	13/41	1/3	1/3	1/3	14/43	9/29	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3
24	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
25	5/16	1/3	1/3	10/31	1/3	1/3	6/19	1/3	1/3	23/74	1/3	1/3	7/22	1/3	1/3	5/16	1/3	1/3	8/25	1/3	1/3	27/86	1/3	1/3	9/28	1/3	1/3	29/92	1/3	1/3	10/31	1/3	1/3	31/98	1/3	1/3	10/31	1/3	1/3	20/63	1/3	1/3	10/31	1/3	1/3	7/22	1/3	1/3	10/31	1/3	1/3	22/69	1/3	1/3	10/31	1/3	1/3	31/97	1/3	1/3
26	5/16		5/16		5/16		4/13		5/16		5/16		14/45		5/16		5/16		5/16		5/16		17/55		5/16		5/16		19/61		5/16		5/16		5/16		5/16		22/71		5/16		5/16		24/77		5/16		5/16		5/16		5/16		9/29		5/16		5/16		
27	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3
28	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
29	1/3	12/37	11/35	13/41	1/3	1/3	1/3	14/43	11/35	15/47	1/3	1/3	1/3	16/49	11/35	17/53	1/3	1/3	1/3	18/55	11/35	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3	1/3	30/91	15/46	31/95	1/3	1/3
30	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
31	6/19	1/3	1/3	12/37	1/3	1/3	7/22	1/3	1/3	27/86	1/3	1/3	8/25	1/3	1/3	29/92	1/3	1/3	9/28	1/3	1/3	31/98	1/3	1/3	10/31	1/3	1/3	20/63	1/3	1/3	11/34	1/3	1/3	7/22	1/3	1/3	12/37	1/3	1/3	22/69	1/3	1/3	12/37	1/3	1/3	31/97	1/3	1/3	12/37	1/3	1/3	25/78	1/3	1/3	12/37	1/3	1/3	31/97	1/3	1/3
32	6/19		6/19		6/19		14/45		6/19		6/19		16/51		6/19		6/19		6/19		6/19		6/19		6/19		21/67		6/19		6/19		23/73		6/19		6/19		6/19		6/19		26/83		6/19		6/19		28/89		6/19		6/19		6/19		6/19			
33	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3
34	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
35	1/3	14/43	13/41	15/47	1/3	1/3	1/3	16/49	13/41	17/53	1/3	1/3	1/3	18/55	13/41	19/59	1/3	1/3	1/3	20/61	13/41	21/65	1/3	1/3	1/3	22/67	13/41	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3	1/3	30/91	15/46	31/95	1/3	1/3	1/3	32/97	16/49	17/52	1/3	1/3
36	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
37	7/22	1/3	1/3	14/43	1/3	1/3	8/25	1/3	1/3	31/98	1/3	1/3	9/28	1/3	1/3	20/63	1/3	1/3	10/31	1/3	1/3	7/22	1/3	1/3	11/34	1/3	1/3	22/69	1/3	1/3	12/37	1/3	1/3	31/97	1/3	1/3	13/40	1/3	1/3	25/78	1/3	1/3	14/43	1/3	1/3	25/78	1/3	1/3	14/43	1/3	1/3	26/81	1/3	1/3	14/43	1/3	1/3	9/28	1/3	1/3
38	7/22		7/22		7/22		16/51		7/22		7/22		6/19		7/22		7/22		20/63		7/22		7/22		7/22		7/22		23/73		7/22		7/22		25/79		7/22		7/22		27/85		7/22		7/22		27/85		6/19		7/22		7/22		19/60		7/22			
39	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3
40	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
41	1/3	16/49	15/47	17/53	1/3	1/3	1/3	18/55	15/47	19/59	1/3	1/3	1/3	20/61	15/47	21/65	1/3	1/3	1/3	22/67	15/47	23/71	1/3	1/3	1/3	24/73	15/47	25/77	1/3	1/3	1/3	26/79	15/47	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3	1/3	30/91	15/46	31/95	1/3	1/3	1/3	32/97	16/49	17/52	1/3	1/3	1/3	32/97	17/52	18/55	1/3	1/3
42	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
43	8/25	1/3	1/3	16/49	1/3	1/3	9/28	1/3	1/3	7/22	1/3	1/3	10/31	1/3	1/3	22/69	1/3	1/3	11/34	1/3	1/3	31/97	1/3	1/3	12/37	1/3	1/3	25/78	1/3	1/3	13/40	1/3	1/3	26/81	1/3	1/3	14/43	1/3	1/3	9/28	1/3	1/3	15/46	1/3	1/3	9/28	1/3	1/3	16/49	1/3	1/3	9/28	1/3	1/3	17/52	1/3	1/3	18/55	1/3
44	8/25		8/25		8/25		6/19		8/25		8/25		20/63		8/25		8/25		22/69		8/25		8/25		8/25		8/25		27/85		8/25		8/25		29/91		8/25		8/25		31/97		8/25		8/25		31/97		8/25		8/25		8/25		8/25		27/85		8/25			
45	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3
46	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
47	1/3	18/55	17/53	19/59	1/3	1/3	1/3	20/61	17/53	21/65	1/3	1/3	1/3	22/67	17/53	23/71	1/3	1/3	1/3	24/73	17/53	25/77	1/3	1/3	1/3	26/79	17/53	27/83	1/3	1/3	1/3	28/85	17/53	29/89	1/3	1/3	1/3	30/91	17/53	31/95	1/3	1/3	1/3	32/97	16/49	17/52	1/3	1/3	1/3	32/97	17/52	18/55	1/3	1/3	1/3	32/97	18/55	19/58	1/3	1/3
48	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
49	9/28	1/3	1/3	20/63	1/3	1/3	10/31	1/3	1/3	7/22	1/3	1/3	11/34	1/3	1/3	31/97	1/3	1/3	12/37	1/3	1/3	25/78	1/3	1/3	13/40	1/3	1/3	26/81	1/3	1/3	14/43	1/3	1/3	28/87	1/3	1/3	15/46	1/3	1/3	29/90	1/3	1/3	16/49	1/3	1/3	29/90	1/3	1/3	17/52	1/3	1/3	29/90	1/3	1/3	18/55	1/3	1/3	31/96	1/3	1/3
50	9/28		9/28		9/28		20/63		9/28		9/28		22/69		9/28		9/28		8/25		9/28		9/28		26/81		17/53		9/28		9/28		9/28		29/91		9/28		9/28		31/97		9/28		9/28		25/78		9/28		9/28		26/81		9/28		9/28		26/81			
51	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3
52	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3	
53	1/3	20/61	19/59	21/65	1/3	1/3	1/3	22/67	19/59	23/71	1/3	1/3	1/3	24/73	19/59	25/77	1/3	1/3	1/3	26/79	19/59	27/83	1/3	1/3	1/3	28/85	19/59	29/89	1/3	1/3	1/3	30/91	19/59	31/95	1/3	1/3	1/3	32/97	19/59	17/52	1/3	1/3	1/3	32/97	19/59	18/55	1/3	1/3	1/3	32/97	18/55	19/58	1/3	1/3	1/3	32/97	19/58	20/61	1/3	1/3
54	1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/3		1/

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/4	2/7	4/11	1/3	1/4	1/3	4/11	6/19	3/10	4/11	4/11	7/23	8/25	4/11	9/26	3/10	10/29	4/11	1/3	10/31	4/11	4/11	11/34	1/3	4/11	13/37	10/31	7/20	4/11	14/41	1/3	4/11	4/11	1/3	16/47	4/11	17/48	1/3	6/17	4/11	9/26	18/53	4/11	4/11	18/53	10/29	4/11	21/59	18/53	11/31	4/11	22/63	11/32	4/11	4/11	11/32	8/23	4/11	5/14	23/68
2	1/3	1/4	1/3	1/3	9/37	1/3	1/3	3/11	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3
3	6/17	1/3	5/13	2/5	1/3	3/8	2/5	1/3	7/19	2/5	10/27	4/11	9/23	2/5	9/25	5/13	2/5	5/14	11/29	2/5	14/37	3/8	13/33	2/5	13/35	7/18	2/5	7/19	5/13	2/5	18/47	8/21	17/43	2/5	17/45	9/23	2/5	3/8	19/49	2/5	22/57	5/13	21/53	2/5	21/55	11/28	2/5	11/29	23/59	2/5	26/67	12/31	25/63	2/5	5/13	13/33	2/5	13/34	9/23	2/5
4	1/3	3/10	3/7	7/18	6/19	3/8	3/7	4/11	1/3	3/7	2/5	9/26	12/31	3/7	11/29	6/17	3/7	13/32	4/11	15/38	3/7	7/18	15/41	3/7	16/39	3/8	2/5	3/7	17/43	3/8	3/7	19/46	18/47	21/52	3/7	2/5	21/55	3/7	22/53	7/18	24/59	3/7	23/57	12/31	3/7	5/12	24/61	9/22	3/7	13/32	9/23	3/7	28/67	27/68	30/73	3/7	29/71	15/38	3/7	31/74
5	1/3	2/7	1/3	1/3	1/4	1/3	1/3	7/23	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	11/37	1/3	1/3	2/7	1/3	1/3	6/19	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	4/13	1/3	1/3	3/10	1/3	1/3	17/53	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	21/67	1/3	1/3	4/13	1/3	1/3	11/34	1/3	1/3	1/3	1/3	1/3	1/3
6	8/23	1/3	3/8	5/13	1/3	7/19	5/13	1/3	4/11	5/13	1/3	9/25	5/13	13/36	5/14	11/29	5/13	11/31	3/8	5/13	6/17	13/35	5/13	13/37	7/19	5/13	18/49	15/41	8/21	5/13	4/11	17/45	5/13	17/47	3/8	5/13	9/25	19/51	5/13	23/62	10/27	21/55	5/13	7/19	11/29	5/13	11/30	23/61	5/13	23/63	3/8	5/13	28/75	25/67	13/34	5/13	13/35	27/71	5/13	27/73
7	9/25	4/13	7/17	3/7	9/29	2/5	3/7	3/8	4/11	5/12	3/7	1/3	11/27	3/7	5/13	2/5	13/31	3/7	16/43	7/17	3/7	9/23	15/37	8/19	3/7	2/5	17/41	3/7	21/53	9/22	19/45	3/7	19/47	5/12	3/7	2/5	7/17	11/26	3/7	11/27	23/55	3/7	23/57	12/29	25/59	3/7	25/61	13/31	3/7	13/32	27/65	14/33	3/7	7/17	29/69	3/7	29/71	5/12	31/73	3/7
8	1/3	2/7	7/18	4/11	7/23	11/32	7/18	9/26	1/3	7/18	11/29	1/3	1/3	7/18	4/11	1/3	16/43	7/18	13/37	15/46	7/18	3/8	14/41	9/25	7/18	4/11	1/3	7/18	18/47	17/48	20/57	7/18	19/51	9/26	23/61	7/18	4/11	11/32	7/18	11/29	21/59	25/68	7/18	23/62	22/63	7/18	5/13	4/11	9/25	7/18	26/69	5/14	30/79	7/18	27/73	29/82	7/18	29/76	4/11	16/43
9	10/29	1/3	7/19	3/8	1/3	4/11	3/8	1/3	9/25	3/8	1/3	5/14	3/8	1/3	11/31	3/8	16/45	6/17	13/35	3/8	13/37	7/19	3/8	7/20	15/41	3/8	15/43	4/11	3/8	8/23	17/47	3/8	22/61	9/25	19/51	3/8	19/53	10/27	3/8	5/14	7/19	3/8	21/59	11/30	3/8	11/31	23/63	3/8	4/11	4/11	25/67	3/8	25/69	13/35	3/8	13/36	27/73	3/8	9/25	7/19
10	11/31	5/16	2/5	7/17	2/7	9/23	7/17	13/38	5/13	11/27	16/41	5/14	2/5	7/17	1/3	13/33	7/17	3/8	7/18	15/37	7/17	5/13	2/5	7/17	4/11	17/43	9/22	23/58	9/23	19/47	7/17	19/49	2/5	7/17	5/13	21/53	11/27	7/17	11/28	23/57	7/17	23/59	2/5	25/61	2/5	25/63	13/32	7/17	13/33	27/67	7/17	9/23	2/5	29/71	7/17	29/73	15/37	7/17	15/38	31/77
11	4/11	5/17	3/7	2/5	12/37	7/19	3/7	11/29	1/3	3/7	13/32	4/11	17/45	3/7	7/18	1/3	3/7	16/39	3/8	5/13	3/7	17/43	4/11	3/7	19/46	18/47	23/59	3/7	2/5	19/51	3/7	22/53	7/18	13/33	3/7	23/57	11/29	3/7	5/12	24/61	29/73	3/7	13/32	5/13	3/7	28/67	27/68	2/5	3/7	29/71	7/18	3/7	31/74	2/5	35/87	3/7	16/39	31/79	3/7	34/81
12	12/35	1/3	4/11	7/19	1/3	9/25	7/19	1/3	5/14	7/19	4/11	11/31	7/19	4/11	6/17	7/19	1/3	4/11	7/19	19/54	4/11	15/41	7/19	15/43	4/11	7/19	8/23	17/47	7/19	17/49	9/25	7/19	4/11	19/53	7/19	4/11	5/14	7/19	26/73	4/11	11/30	7/19	4/11	23/63	7/19	23/65	4/11	7/19	6/17	25/69	7/19	25/71	13/36	7/19	4/11	9/25	7/19	4/11	14/39	29/79
13	13/37	6/19	9/23	2/5	12/41	5/13	2/5	7/22	11/29	2/5	17/47	3/8	13/33	2/5	6/17	7/18	2/5	1/3	5/13	2/5	7/19	8/21	17/43	2/5	17/45	9/23	2/5	3/8	19/49	2/5	25/67	5/13	21/53	2/5	21/55	11/28	2/5	11/29	23/59	2/5	23/61	12/31	25/63	2/5	5/13	13/33	2/5	13/34	9/23	2/5	27/71	7/18	29/73	2/5	29/75	15/38	2/5	5/13	31/79	2/5
14	14/39	3/10	5/12	3/7	13/43	17/44	3/7	17/46	16/47	13/31	3/7	1/3	7/17	3/7	20/53	10/27	8/19	3/7	1/3	17/41	3/7	23/60	24/61	19/45	3/7	23/64	5/12	3/7	26/67	7/17	11/26	3/7	27/71	23/55	3/7	29/74	12/29	25/59	3/7	31/78	13/31	3/7	32/81	27/65	14/33	3/7	7/17	29/69	3/7	35/88	5/12	31/73	3/7	31/75	8/19	3/7	2/5	33/79	17/40	3/7
15	9/26	1/3	2/5	11/29	1/3	5/14	2/5	4/11	11/31	2/5	7/18	6/17	4/11	2/5	3/8	4/11	22/57	17/43	4/11	1/3	2/5	18/47	17/48	3/8	2/5	19/51	17/49	2/5	7/18	4/11	26/71	2/5	11/29	5/14	2/5	24/61	23/62	4/11	2/5	5/13	4/11	16/41	27/68	26/69	5/14	2/5	7/18	27/73	34/89	2/5	29/76	4/11	2/5	31/79	3/8	3/8	2/5	32/83	31/84	2/5
16	15/43	7/22	5/13	9/23	14/47	11/29	9/23	20/61	3/8	9/23	9/26	13/35	7/18	3/8	7/19	5/13	9/23	7/20	8/21	9/23	1/3	17/45	9/23	4/11	3/8	19/49	9/23	19/51	5/13	9/23	10/27	21/55	9/23	7/19	11/29	23/59	30/79	23/61	12/31	9/23	3/8	5/13	9/23	25/67	13/34	9/23	13/35	27/71	7/18	9/23	14/37	29/75	9/23	29/77	5/13	9/23	3/8	31/81	16/41	13/34
17	16/45	7/23	11/27	5/12	2/7	2/5	5/12	9/26	19/53	7/17	2/5	1/3	15/37	5/12	20/59	2/5	17/41	12/31	23/63	9/22	5/12	1/3	19/47	5/12	26/69	2/5	7/17	5/12	27/73	11/27	5/12	7/19	23/57	12/29	32/79	2/5	25/61	5/12	31/83	13/32	27/65	17/43	27/67	7/17	5/12	2/5	29/71	5/12	12/31	15/37	31/75	5/12	31/77	16/39	5/12	2/5	11/27	17/41	31/76	17/42
18	17/47	1/3	3/7	13/32	1/3	19/52	3/7	7/18	6/17	3/7	16/39	13/37	22/59	3/7	17/43	9/25	3/7	19/46	24/65	25/66	3/7	2/5	1/3	3/7	22/53	7/18	28/73	3/7	23/57	27/76	3/7	5/12	24/61	31/80	3/7	13/32	31/83	3/7	28/67	27/68	34/87	3/7	29/71	7/18	3/7	31/74	2/5	37/94	3/7	16/39	31/79	3/7	34/81	33/82	21/53	3/7	7/17	17/43	3/7	37/88
19	17/49	8/25	11/29	5/13	11/34	3/8	5/13	13/37	13/35	5/13	3/8	7/19	5/13	11/29	15/41	8/21	5/13	11/29	17/45	5/13	11/29	3/8	5/13	1/3	11/29	5/13	9/25	10/27	21/55	5/13	7/19	11/29	5/13	11/30	23/61	5/13	23/63	3/8	5/13	26/69	25/67	13/34	5/13	13/35	27/71	5/13	11/29	14/37	5/13	11/29	29/77	5/13	29/79	11/29	31/81	5/13	31/83	8/21	5/13	16/43
20	6/17	4/13	2/5	11/27	2/7	13/33	11/27	10/29	22/59	15/37	23/61	21/62	2/5	11/27	1/3	17/43	11/27	6/17	9/23	19/47	28/71	13/36	2/5	11/27	1/3	21/53	11/27	29/78	11/28	23/57	11/27	31/82	2/5	11/27	6/17	25/63	13/32	17/44	13/33	27/67	11/27	9/23	2/5	11/27	7/19	29/73	15/37	39/98	15/38	31/77	11/27	31/79	2/5	11/27	8/21	33/83	17/42	11/27	17/43	35/87
21	19/53	1/3	13/31	3/7	1/3	11/29	3/7	11/30	13/37	8/19	3/7	7/20	2/5	3/7	25/67	5/14	19/45	3/7	5/14	5/12	3/7	14/37	28/75	11/26	3/7	1/3	23/55	3/7	31/81	16/41	25/59	3/7	6/17	13/31	3/7	17/44	36/89	14/33	3/7	17/46	29/69	3/7	37/95	5/12	31/73	3/7	38/99	8/19	3/7	20/51	33/79	17/40	3/7	21/53	35/83	3/7	28/71	18/43	37/87	3/7
22	4/11	9/28	13/32	7/18	19/59	13/35	13/32	3/8	7/19	13/32	17/43	15/41	11/29	13/32	18/47	17/45	28/71	2/5	3/8	11/29	13/32	7/18	11/29	5/13	23/57	11/29	1/3	13/32	24/61	23/62	32/85	13/32	5/13	23/63	13/32	27/68	26/69	25/67	13/32	7/18	13/35	13/32	2/5	29/76	14/37	13/32	31/79	29/77	39/98	33/82	32/83	11/29	13/32	17/43	11/29	32/85	36/89	7/18	34/91	13/32
23	20/57	9/29	13/33	2/5	6/19	7/18	2/5	14/41	5/13	2/5	4/11	6/17	17/43	2/5	17/48	9/23	2/5	4/11	19/49	2/5	4/11	5/13	21/53	2/5	4/11	11/28	2/5	1/3	23/59	2/5	32/87	12/31	25/63	2/5	5/13	13/33	2/5	17/47	9/23	2/5	36/97	7/18	29/73	2/5	29/75	15/38	2/5	5/13	31/79	2/5	37/99	16/41	33/83	2/5	33/85	17/43	2/5	17/44	35/89	2/5
24	21/59	1/3	7/17	13/31	1/3	25/64	13/31	23/66	7/20	17/41	28/69	15/43	9/22	13/31	8/23	14/37	5/12	15/38	11/31	7/17	13/31	11/31	11/27	23/55	32/83	31/84	12/29	13/31	1/3	25/61	13/31	17/45	36/91	27/65	13/31	17/47	7/17	13/31	36/97	29/71	5/12	25/61	22/57	31/75	13/31	19/52	16/39	33/79	39/97	11/27	17/41	13/31	14/37	7/17	18/43	17/45	9/22	37/89	13/31	36/91
25	22/61	10/31	3/7	16/39	4/13	7/19	3/7	13/34	15/41	3/7	19/46	4/11	3/8	3/7	2/5	3/8	3/7	22/53	19/51	3/8	3/7	23/57	3/8	3/7	5/12	3/8	11/29	3/7	13/32	1/3	3/7	28/67	12/31	18/47	3/7	29/71	25/69	3/7	31/74	2/5	22/57	3/7	16/39	7/19	3/7	34/81	33/82	7/18	3/7	7/17	14/37	3/7	37/88	36/89	22/57	3/7	19/46	12/31	3/7	8/19
26	13/37	5/16	7/18	13/33	22/67	5/13	13/33	4/11	8/21	13/33	18/47	27/74	9/23	7/18	19/51	19/49	13/33	7/18	5/13	13/33	7/18	21/55	11/28	16/43	7/18	23/59	13/33	7/18	12/31	13/33	1/3	7/18	13/33	35/96	13/34	9/23	13/33	27/71	7/18	13/33	31/84	29/75	13/33	3/8	5/13	31/79	32/83	31/81	16/41	13/33	8/21	33/85	13/33	7/18	17/44	35/89	7/18	5/13	9/23	13/33
27	23/65	1/3	15/37	7/17	1/3	2/5	7/17	25/72	26/73	9/22	29/75	8/23	19/47	7/17	17/49	2/5	7/17	15/41	30/83	11/27	7/17	6/17	23/57	7/17	6/17	2/5	25/61	9/23	34/93	13/32	7/17	1/3	27/67	7/17	37/99	2/5	29/71	7/17	31/84	15/37	7/17	19/53	31/77	16/39	28/71	2/5	11/27	7/17	31/84	17/42	7/17	37/99	35/87	9/22	7/17	2/5	37/91	7/17	31/84	19/47
28	24/67	11/34	8/19	3/7	2/7	22/71	3/8	3/7	27/74	4/11	19/45	3/7	7/17	47/31	29/73	3/7	10/27	13/35	11/26	3/7	10/27	35/86	3/7	3/8	13/35	25/59	3/7	13/35	13/31	3/7	36/95	3/8	14/33	3/7	15/46	29/69	3/7	13/34	33/85	31/73	3/7	9/25	8/19	3/7	37/96	2/5	17/40	3/7	15/41	35/83	3/7	26/67	35/86	37/87	3/7	3/8	19/45	3/7	37/96	13/31	20/47
29	25/69	11/35	16/39	17/43	23/73	8/21	16/39	18/47	17/45	16/39	2/5	3/8	19/49	16/39	7/18	5/13	2/5	23/57	21/55	7/18	16/39	24/61	7/18	9/23	13/32	12/31	36/95	16/39	27/68	7/18	38/99	29/71	7/18	1/3	16/39	2/5	29/76	14/37	16/39	31/79	29/77	16/39	33/82	32/83	31/81	16/39	17/43	8/21	2/5	36/89	7/18	17/44	9/22	37/93	5/13	25/62	13/32	38/97	7/18	16/39
30	25/71	1/3	2/5	15/37	1/3	17/43	15/37	17/48	29/79	19/47	19/51	17/49	2/5	15/37	4/11	21/53	15/37	3/8	34/89	23/57	5/13	23/62	2/5	15/37	3/8	25/63	15/37	5/14	13/33	27/67	21/53	3/8	2/5	15/37	1/3	29/73	15/37	10/27	15/38	31/77	15/37	29/79	2/5	15/37	6/17	33/83	17/42	34/93	11/27	17/41	13/31	14/37	7/17	37/93	19/47	35/93	19/48	39/97
31	26/73	12/37	17/41	8/19	24/77	5/13	8/19	7/20	17/47	5/12	34/83	9/25	7/17	8/19	19/53	7/19	23/55	2/5	7/19	12/29	8/19	11/30	37/95	13/31	38/97	7/19	27/65	8/19	7/19	7/17	29/69	5/13	13/35	5/12	8/19	1/99	31/75	8/19	19/52	11/28	33/79	34/83	29/81	17/41	8/19	31/86	7/17	18/43	31/75	13/35	37/89	21/50	33/91	19/46	13/31	38/97	11/28	5/12	37/88	1/99
32	9/25	6/19	3/7	19/46	24/79	17/45	3/7	31/82	3/8	3/7	22/53	19/51	5/13	3/7	35/89	21/55	3/7	5/12	11/29	5/13	3/7	13/32	5/13	3/7	28/67	5/13	35/93	3/7	29/71	5/13	3/7	31/74	5/13	30/79	3/7	16/39	1/99	3/7	34/81	31/82	30/79	3/7	7/17	31/83	3/7	37/88	35/89	37/96	3/7	19/46	17/45	3/7	8/19	13/32	18/47	3/7	41/99	37/97	3/7	35/83
33	4/11	1/3	17/43	2/5	1/3	9/23	2/5	19/51	32/85	2/5	7/18	4/11	21/53	2/5	11/29	11/28	2/5	24/61	23/59	2/5	17/43	5/13	25/63	2/5	17/43	13/33	2/5	17/43	9/23	2/5	35/96	17/43	29/73	2/5	31/80	15/38	2/5	1/99	17/43	2/5	31/84	16/41	33/83	2/5	32/85	17/43	2/5	34/91	35/89	2/5	18/47	9/23	37/93	2/5	37/95	19/48	2/5	22/57	13/33	2/5
34	28/79	13/40	9/22	17/41	16/49	11/28	17/41	15/43	9/25	7/17	35/89	19/53	11/27	17/41	5/14	18/47	12/29	3/8	15/41	25/61	17/41	23/63	13/32	17/41	4/11	3/8	7/17	28/69	15/41	29/71	17/41	15/41	15/37	31/75	37/95	4/11	16/39	17/41	1/99	11/27	17/41	3/8	11/28	7/17	28/69	1/99	9/22	41/99	1/99	37/91	19/46	37/95	18/47	39/95	17/41	1/99	20/49	41/99	35/92	28/69
35	29/81	13/41	19/45	3/7	3/10	3/8	3/7	4/11	19/51	11/26	3/7	10/27	12/31	3/7	7/19	11/29	25/59	3/7	23/61	9/23	3/7	3/8	8/21	14/33	3/7	8/21	37/90	3/7	27/71	4/11	31/73	3/7	8/21	8/19	3/7	8/21	16/43	17/40	3/7	1/99	35/83	3/7	35/93	12/31	37/87	3/7	1/99	19/45	3/7	19/51	23/59	20/47	3/7	1/99	41/97	3/7	35/93	2/5	23/54	3/7
36	30/83	1/3	19/46	2/5	1/3	19/49	19/46	7/18	5/13	19/46	23/57	33/94	11/28	19/46	24/61	23/59	40/99	13/32	12/31	17/43	19/46	27/68	13/33	21/53	29/71	9/23	17/43	19/46	2/5	17/43	37/95	16/39	15/38	19/53	19/46	33/82	17/43	29/78	7/17	17/43	1/99	19/46	36/89	7/18	17/44	19/46	37/93	5/13	19/46	13/32	38/97	37/95	37/90	2/5	19/49	40/99	31/76	28/71	20/51	37/90
37	17/48	14/43	19/47	9/22	29/89	2/5	9/22	4/11	19/53	11/27	11/29	5/14	23/57	9/22	23/62	2/5	9/22	18/47	4/11	13/32	2/5	26/69	27/67	9/22	18/47	2/5	29/71	3/8	29/76	15/37	9/22	18/47	31/77	9/22	1/99	2/5	11/27	8/21	18/47	17/42	9/22	1/99	35/87	9/22	26/71	2/5	37/91	2/5	1/99	19/47	38/93	1/99	39/97	20/49	3/8	2/5	28/69	38/93	1/99	21/52
38	31/87	7/22	5/12	19/45	17/53	35/92	19/45	17/47	10/27	23/55	40/97	7/19	40/99	19/45	11/30	23/61	13/31	21/52	3/8	27/65	19/45	25/67	17/45	29/69	5/13	17/45	5/12	19/45	17/45	23/58	8/19	14/37	9/26	33/79	19/45	17/45	17/41	35/83	17/45	29/79	18/43	19/45	1/99	37/89	19/45	17/47	35/92	13/31	40/97	1/99	5/12	35/83	1/99	40/99	21/50	21/52	1/99	38/91	8/19	1/99
39	32/89	1/3	3/7	22/53	1/3	5/13	3/7	3/8	21/55	3/7	5/12	9/25	23/59	3/7	33/85	12/31	3/7	28/67	5/13	9/23	3/7	28/71	9/23	3/7	31/74	7/18	9/23	3/7	16/39	9/23	3/7	34/81	9/23	10/27	3/7	7/17	19/51	3/7	37/88	9/23	10/27	3/7	19/46	1/99	3/7	8/19	25/66	18/47	3/7	41/99	37/97	3/7	35/83	33/85	22/57	3/7	22/53	1/99	3/7	27/64
40	33/91	15/46	2/5	19/47	13/42	21/53	19/47	11/29	4/11	23/57	24/61	21/59	2/5	19/47	5/13	25/63	19/47	27/68	26/69	27/67	2/5	7/18	2/5	19/47	2/5	29/73	19/47	2/5	31/79	31/77	8/21	2/5	2/5	19/47	2/5	33/83	19/47	1/99	2/5	35/87	33/85	23/60	2/5	19/47	1/99	2/5	19/47	37/98	19/48	39/97	33/85	1/99	2/5	21/52	8/21	39/98	21/52	7/18	21/53	39/97
41	11/31	15/47	7/17	5/12	9/28	19/49	5/12	21/59	7/19	12/29	39/98	11/30	25/61	5/12	23/63	3/8	27/65	21/55	25/67	7/17	5/12	13/35	28/71	5/12	19/51	3/8	31/75	5/12	3/8	16/39	5/12	3/8	37/98	17/41	39/98	3/8	7/17	5/12	3/8	9/22	37/89	21/55	19/51	19/46	5/12	1/99	39/95	5/12	1/99	19/49	41/99	5/12	1/99	7/17	37/89	1/99	34/83	22/53	21/55	1/99
42	34/95	1/3	11/26	3/7	1/3	21/55	3/7	33/91	11/29	25/59	3/7	32/87	12/31	3/7	29/79	5/13	14/33	3/7	13/34	15/38	3/7	27/71	19/49	31/73	3/7	29/75	33/83	3/7	5/13	19/49	17/40	3/7	19/49	34/83	3/7	19/49	1/99	37/87	3/7	18/49	19/45	3/7	19/49	27/73	20/47	3/7	1/99	41/97	3/7	33/91	23/60	23/54	3/7	1/99	11/26	3/7	1/99	15/38	23/54	3/7
43	35/97	6/19	22/53	23/57	25/83	11/28	22/53	5/13	13/35	22/53	13/32	11/31	25/63	22/53	27/68	13/33	2/5	29/71	9/23	2/5	22/53	2/5	29/73	2/5	16/39	15/38	2/5	22/53	33/82	2/5	23/60	7/17	33/83	2/5	22/53	36/89	2/5	4/11	19/46	2/5	1/99	22/53	13/32

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	1/3	3/10	3/11	2/7	1/3	3/8	3/8	3/8	6/17	1/3	6/19	7/22	8/23	3/8	3/8	3/8	9/25	9/26	1/3	1/3	11/31	3/8	3/8	3/8	4/11	6/17	12/35	13/38	14/39	3/8	3/8	3/8	15/41	5/14	15/43	8/23	17/47	3/8	3/8	3/8	18/49	9/25	6/17	19/54	4/11	3/8	3/8	3/8	7/19	21/58	21/59	11/31	23/63	3/8	3/8	3/8	24/65	4/11	24/67	5/14
2	3/10	2/7	1/4	2/7	5/17	1/3	1/3	1/3	1/3	6/19	3/10	2/7	9/32	4/13	1/3	1/3	1/3	1/3	9/28	9/29	3/10	5/17	11/35	1/3	1/3	1/3	1/3	12/37	6/19	4/13	13/43	7/22	1/3	1/3	1/3	1/3	15/46	15/47	5/16	4/13	15/47	17/53	1/3	1/3	1/3	1/3	18/55	9/28	6/19	19/61	10/31	1/3	1/3	1/3	1/3	21/64	21/65	7/22	11/35	23/71	1/3
3	3/11	3/11	6/25	1/4	5/19	3/10	3/10	3/10	3/10	3/10	2/7	3/11	3/11	15/58	8/29	3/10	3/10	3/10	3/10	3/10	9/31	9/32	3/11	3/11	11/39	3/10	3/10	3/10	3/10	3/10	12/41	2/7	12/43	27/98	2/7	3/10	3/10	3/10	3/10	3/10	15/52	15/53	26/93	17/59	3/10	3/10	3/10	3/10	18/61	9/31	2/7	13/46	20/69	3/10	3/10	3/10	3/10	3/10
4	1/3	1/3	2/7	1/4	5/17	1/3	1/3	1/3	2/7	2/7	7/23	1/3	1/3	1/3	9/31	2/7	9/29	1/3	1/3	1/3	11/37	5/17	11/35	1/3	1/3	1/3	13/43	3/10	13/41	1/3	1/3	1/3	15/49	7/23	15/47	1/3	1/3	1/3	17/55	4/13	17/53	1/3	1/3	1/3	19/61	9/29	19/59	1/3	1/3	1/3	21/67	5/16	21/65	1/3	1/3	1/3	23/73	11/35	23/71	1/3
5	5/13	7/20	2/7	5/17	1/3	7/19	5/13	5/13	1/3	7/23	1/3	9/25	5/13	5/13	4/11	11/34	1/3	11/31	3/8	5/13	5/13	7/20	1/3	13/37	7/19	5/13	5/13	17/46	16/47	15/43	4/11	17/45	5/13	5/13	19/53	17/49	9/25	19/51	5/13	5/13	22/59	7/20	5/14	7/19	11/29	5/13	5/13	4/11	11/31	23/63	3/8	5/13	5/13	3/8	26/73	25/69	13/35	27/71	5/13	5/13
6	3/7	4/11	7/23	1/3	7/19	2/5	3/7	3/7	11/29	1/3	9/25	5/13	11/27	3/7	3/7	7/18	11/31	3/8	13/33	7/17	3/7	3/7	7/17	43/73	7/19	5/13	2/5	17/41	3/7	3/7	2/5	17/45	9/23	19/47	5/12	3/7	3/7	23/57	5/13	21/53	11/27	23/55	3/7	3/7	13/32	23/59	2/5	25/61	13/31	3/7	3/7	29/71	13/33	27/67	7/17	29/69	3/7	3/7	16/39	29/73	15/37
7	2/5	3/8	8/25	4/13	10/27	3/7	3/7	9/22	9/23	3/8	1/3	13/34	3/7	3/7	12/29	2/5	12/31	3/8	16/41	3/7	3/7	5/12	15/37	15/38	5/13	19/48	3/7	3/7	18/43	9/22	2/5	9/23	2/5	3/7	3/7	21/50	7/17	21/52	21/53	25/62	3/7	3/7	8/19	12/29	24/59	2/5	28/69	3/7	3/7	27/64	27/65	9/22	27/67	31/76	3/7	3/7	30/71	5/12	30/73	15/37
8	3/8	6/17	1/3	2/7	10/29	2/5	2/5	9/23	3/8	9/25	9/26	1/3	14/37	2/5	2/5	12/31	3/8	4/11	6/17	4/11	2/5	2/5	15/38	5/13	3/8	15/41	5/14	5/13	2/5	2/5	9/23	18/47	3/8	18/49	22/59	2/5	2/5	21/53	7/18	21/55	3/8	7/19	26/67	2/5	2/5	24/61	12/31	8/21	3/8	14/37	2/5	2/5	27/68	9/23	27/70	27/71	3/8	16/41	2/5	2/5
9	6/17	1/3	6/19	3/10	10/31	3/8	3/8	3/8	9/25	9/26	1/3	9/28	1/3	3/8	3/8	3/8	4/11	6/17	12/35	1/3	16/47	3/8	3/8	3/8	15/41	5/14	15/43	15/44	19/55	3/8	3/8	3/8	18/49	9/25	6/17	9/26	22/63	3/8	3/8	3/8	7/19	21/58	21/59	7/20	25/71	3/8	3/8	3/8	24/65	4/11	24/67	6/17	28/79	3/8	3/8	3/8	27/73	27/74	9/25	27/76
10	1/3	1/3	3/10	2/7	4/13	6/17	6/17	6/17	9/26	1/3	11/34	1/3	1/3	1/3	6/17	6/17	6/17	12/35	1/3	1/3	13/41	9/28	6/17	6/17	6/17	15/43	15/44	1/3	18/55	1/3	20/59	6/17	6/17	6/17	9/26	18/53	1/3	1/3	24/73	6/17	6/17	6/17	7/20	21/61	21/62	1/3	27/82	13/38	6/17	6/17	6/17	8/23	12/35	24/71	1/3	1/3	6/17	6/17	27/77
11	7/19	11/32	2/7	7/23	1/3	9/25	7/19	7/19	1/3	9/28	1/3	11/31	7/19	7/19	1/3	1/3	1/3	13/37	7/19	7/19	6/17	13/41	1/3	15/43	4/11	7/19	7/19	19/58	1/3	17/49	9/25	7/19	7/19	11/32	1/3	19/55	5/14	7/19	7/19	5/14	1/3	21/61	11/31	23/63	7/19	7/19	26/77	23/67	6/17	25/69	7/19	7/19	29/83	25/73	13/37	9/25	7/19	7/19	32/89	27/79
12	2/5	6/17	2/7	1/3	9/25	5/13	2/5	2/5	14/41	1/3	11/31	3/8	13/33	2/5	18/47	1/3	13/37	7/19	5/13	2/5	2/5	10/27	15/43	4/11	17/45	9/23	2/5	2/5	22/61	9/25	19/51	5/13	21/53	2/5	26/67	5/14	7/19	11/29	23/59	2/5	2/5	14/37	23/63	3/8	5/13	13/33	2/5	2/5	10/27	13/35	27/71	7/18	29/73	2/5	34/87	7/19	29/77	5/13	31/79	2/5
13	3/7	13/36	11/37	6/19	5/13	11/27	3/7	3/7	16/43	7/22	16/45	13/33	7/17	3/7	3/7	19/50	1/3	5/13	2/5	17/41	3/7	3/7	22/57	21/58	9/23	19/47	5/12	3/7	3/7	25/64	5/13	21/53	11/27	23/55	3/7	3/7	28/71	23/59	2/5	25/61	13/31	3/7	3/7	7/17	29/69	3/7	3/7	31/78	13/33	27/67	7/17	29/69	3/7	3/7	2/5	29/73	15/37	31/75	8/19	3/7	3/7	37/92	2/5	11/27
14	9/22	7/19	4/13	3/10	15/41	3/7	3/7	12/29	2/5	8/23	15/47	3/8	3/7	3/7	5/12	15/37	20/53	1/3	2/5	11/27	3/7	1/3	18/43	9/22	2/5	22/61	12/31	3/7	3/7	21/50	7/17	21/52	13/34	9/23	3/7	3/7	8/19	12/29	24/59	2/5	5/13	3/7	3/7	27/64	27/65	9/22	27/67	33/83	3/7	3/7	30/71	5/12	30/73	15/37	2/5	3/7	3/7	11/26	33/79	33/80	11/27
15	9/23	3/8	13/41	2/7	15/43	9/22	9/22	2/5	12/31	3/8	16/49	17/50	20/51	9/22	15/37	15/38	5/13	3/8	1/3	11/29	9/22	9/22	2/5	9/23	18/47	3/8	24/65	9/22	9/22	21/52	21/53	7/18	21/55	3/8	29/73	9/22	24/59	2/5	24/61	12/31	8/21	31/80	9/22	9/22	27/67	27/68	9/23	27/70	27/71	9/22	9/22	15/37	2/5	15/38	30/77	5/13	2/5	9/22	11/27	33/82
16	3/8	9/25	14/43	2/7	1/3	9/23	9/23	12/31	3/8	4/11	6/17	1/3	19/53	9/23	9/23	5/13	3/8	15/41	5/14	1/3	23/61	9/23	9/23	18/47	3/8	18/49	9/25	6/17	9/23	9/23	7/18	21/55	3/8	7/19	21/58	7/19	9/23	9/23	12/31	8/21	3/8	24/65	4/11	8/21	9/23	9/23	27/70	27/71	3/8	27/73	27/74	9/23	9/23	30/77	5/13	30/79	3/8	10/27	37/99	9/23
17	9/25	9/26	1/3	9/29	1/3	3/8	3/8	3/8	4/11	6/17	12/35	13/37	9/25	3/8	3/8	3/8	15/41	34/95	9/25	9/25	1/3	3/8	3/8	3/8	18/49	9/25	6/17	9/26	18/53	3/8	3/8	3/8	7/19	21/58	21/59	32/91	11/31	3/8	3/8	3/8	24/65	4/11	24/67	9/25	9/25	3/8	3/8	3/8	27/73	27/74	9/25	27/76	27/77	3/8	3/8	3/8	10/27	15/41	30/83	5/14
18	5/13	8/23	9/28	1/3	11/31	3/8	5/13	5/13	6/17	12/35	13/37	7/19	5/13	5/13	9/25	9/25	5/14	4/11	17/45	5/13	5/13	1/3	9/25	9/25	19/51	5/13	5/13	13/36	19/55	5/14	7/19	11/29	5/13	5/13	7/20	11/31	23/63	3/8	5/13	5/13	31/85	24/67	25/69	13/35	27/71	5/13	5/13	9/25	9/25	7/19	29/77	5/13	5/13	18/49	29/81	15/41	31/83	8/21	5/13	5/13
19	11/27	17/48	9/29	8/25	3/8	13/33	11/27	11/27	19/55	1/3	7/19	5/13	2/5	11/27	24/61	9/26	22/63	17/45	9/23	19/47	11/27	13/34	1/3	19/51	5/13	21/53	11/27	11/27	28/75	7/19	11/29	23/59	2/5	11/27	11/27	15/41	3/8	5/13	13/33	27/67	11/27	35/88	13/35	27/71	7/18	29/73	15/37	11/27	37/95	29/77	5/13	31/79	2/5	11/27	11/27	13/34	8/21	33/85	17/43	35/87
20	3/7	9/25	3/10	4/13	20/53	7/17	3/7	3/7	7/19	19/58	20/59	2/5	17/41	3/7	3/7	3/8	1/3	4/11	19/47	5/12	3/7	3/7	27/71	1/3	28/73	11/27	23/55	3/7	3/7	5/13	28/79	2/5	25/61	13/31	3/7	3/7	33/85	16/43	27/67	7/17	29/69	3/7	3/7	9/23	12/31	15/37	31/75	8/19	3/7	3/7	13/33	2/5	11/27	17/41	35/83	3/7	3/7	21/53	35/87	9/22
21	12/29	19/52	16/53	8/27	4/11	3/7	3/7	5/12	23/59	1/3	20/61	23/62	3/7	3/7	18/43	9/22	24/67	14/43	26/69	3/7	3/7	21/50	7/17	14/37	1/3	29/76	3/7	3/7	8/19	12/29	32/81	29/82	32/83	3/7	3/7	27/64	27/65	9/22	33/89	7/18	3/7	3/7	30/71	5/12	30/73	37/96	38/97	3/7	3/7	11/26	33/79	33/80	39/98	28/71	3/7	3/7	36/85	18/43	12/29	9/22
22	2/5	10/27	17/55	17/56	20/57	12/29	12/29	15/37	15/38	11/31	29/90	11/32	2/5	12/29	9/22	2/5	9/23	12/35	24/71	7/18	12/29	7/17	21/52	21/53	29/77	1/3	30/79	12/29	12/29	24/59	2/5	24/61	31/85	16/43	12/29	12/29	9/22	27/67	27/68	9/23	34/93	19/47	12/29	30/73	15/37	2/5	15/38	19/50	21/53	12/29	33/80	11/27	33/82	33/83	11/28	16/43	12/29	12/29	9/22	36/89
23	12/31	3/8	6/19	11/35	20/59	2/5	2/5	15/38	5/13	3/8	1/3	15/43	25/67	2/5	2/5	9/23	18/47	3/8	11/31	11/31	2/5	2/5	21/53	7/18	21/55	3/8	1/3	31/82	2/5	2/5	24/61	12/31	8/21	3/8	32/89	2/5	2/5	27/68	9/23	27/70	27/71	3/8	37/97	2/5	2/5	15/38	30/77	5/13	30/79	3/8	2/5	2/5	33/83	11/28	33/85	33/86	11/29	37/97	2/5	2/5
24	3/8	4/11	19/59	1/3	13/37	12/31	12/31	5/13	3/8	15/41	15/43	4/11	3/8	12/31	12/31	18/47	3/8	18/49	19/51	3/8	4/11	12/31	12/31	21/55	3/8	3/8	3/8	1/3	32/85	12/31	12/31	8/21	3/8	24/65	4/11	6/17	12/31	12/31	27/70	27/71	3/8	27/73	27/74	7/19	12/31	12/31	5/13	30/79	3/8	10/27	31/83	3/8	12/31	12/31	33/86	11/29	3/8	3/8	3/8	10/27
25	13/33	6/17	20/61	10/31	7/19	5/13	13/33	13/33	15/41	5/14	4/11	17/45	9/23	13/33	3/8	3/8	18/49	19/51	5/13	13/33	13/33	3/8	3/8	3/8	11/29	23/59	13/33	33/86	1/3	3/8	3/8	5/13	13/33	13/33	34/93	25/69	13/35	27/71	7/18	13/33	13/33	27/74	7/19	29/77	5/13	31/79	13/33	20/53	10/27	31/83	8/21	33/85	13/33	13/33	3/8	3/8	17/45	5/13	9/23	13/33
26	7/17	11/31	1/3	5/16	5/13	2/5	7/17	7/17	5/14	15/43	25/71	9/23	19/47	7/17	2/5	4/11	9/25	5/13	21/53	11/27	7/17	16/41	4/11	4/11	23/59	2/5	25/61	7/17	34/89	1/3	5/13	13/33	27/67	7/17	7/17	3/8	35/97	7/18	29/73	15/37	7/17	7/17	31/84	5/13	31/79	2/5	11/27	7/17	23/57	4/11	33/85	17/43	35/87	9/22	7/17	23/58	5/13	9/23	37/93	19/47
27	3/7	23/64	12/37	10/33	25/67	17/41	3/7	3/7	26/71	15/44	1/3	29/74	5/12	3/7	3/7	29/78	6/17	7/20	11/27	23/55	3/7	3/7	32/85	6/17	32/87	25/61	13/31	3/7	3/7	35/92	1/3	18/47	7/17	29/69	3/7	3/7	38/99	7/20	21/53	31/75	8/19	3/7	3/7	29/75	35/96	11/27	17/41	35/83	3/7	3/7	37/95	32/87	9/22	37/89	19/45	3/7	3/7	38/97	18/47	39/95
28	5/12	4/11	6/19	3/10	25/69	3/7	3/7	18/43	28/73	1/3	1/3	7/19	3/7	3/7	21/50	2/5	28/81	31/89	31/83	3/7	3/7	8/19	12/29	4/11	31/89	17/45	3/7	3/7	27/64	27/65	36/95	1/3	37/97	3/7	3/7	30/71	5/12	20/51	28/81	37/97	3/7	3/7	11/26	33/79	23/57	4/11	31/80	3/7	3/7	36/85	18/43	12/29	35/93	31/80	3/7	3/7	39/92	13/31	39/94	36/95
29	15/37	25/68	4/13	13/41	25/71	5/12	5/12	9/22	2/5	13/38	26/77	17/49	32/79	5/12	7/17	21/52	31/83	32/91	13/37	17/43	5/12	12/29	24/59	2/5	32/91	13/37	12/31	5/12	27/65	9/22	27/67	37/98	1/3	19/50	5/12	5/12	30/73	15/37	2/5	19/53	37/99	5/12	5/12	33/80	11/27	33/82	37/98	27/76	38/93	5/12	12/29	9/22	36/89	2/5	19/53	39/97	5/12	39/94	39/95	13/32
30	15/38	13/35	22/71	1/3	15/43	15/37	15/37	2/5	9/23	14/39	17/49	9/25	31/81	15/37	21/52	21/53	7/18	5/14	7/19	7/19	15/37	15/37	2/5	24/61	12/31	7/19	7/19	19/48	15/37	27/67	27/68	9/23	35/93	1/3	25/66	15/37	15/37	2/5	15/38	30/77	14/39	4/11	15/37	15/37	33/82	33/83	11/28	33/85	31/86	23/59	15/37	36/89	2/5	36/91	9/23	12/31	31/84	15/37	15/37
31	5/13	3/8	23/73	12/37	4/11	15/38	15/38	9/23	18/47	3/8	9/25	19/51	5/13	15/38	15/38	7/18	21/55	3/8	11/29	5/13	5/13	15/38	15/38	24/61	12/31	8/21	5/13	5/13	5/14	15/38	15/38	9/23	27/70	5/13	5/13	1/3	20/53	15/38	15/38	30/77	5/13	30/79	3/8	15/41	15/38	15/38	11/28	33/85	33/86	11/29	3/8	17/45	15/38	15/38	9/23	12/31	18/47	36/95	37/97	5/13	15/38
32	2/5	15/41	8/25	6/19	17/45	9/23	2/5	2/5	3/8	18/49	30/83	5/13	21/53	2/5	5/13	21/55	3/8	11/29	23/59	2/5	2/5	5/13	5/13	8/21	5/13	13/33	2/5	2/5	26/71	5/13	5/13	7/18	29/73	2/5	11/29	1/99	29/77	5/13	31/79	2/5	2/5	10/27	15/41	8/21	33/85	17/43	2/5	2/5	3/8	17/45	5/13	9/23	37/93	2/5	23/60	36/95	37/97	19/49	13/33	2/5
33	17/41	5/14	25/77	4/13	30/79	19/47	17/41	17/41	18/49	9/25	6/17	21/53	11/27	17/41	36/89	3/8	7/19	17/46	2/5	25/61	17/41	19/48	3/8	3/8	13/33	27/67	7/17	17/41	33/85	3/8	3/8	29/73	15/37	31/75	17/41	31/84	1/99	30/79	2/5	11/27	17/41	17/41	30/83	5/14	17/43	35/87	9/22	12/29	17/41	11/30	17/46	37/93	19/47	39/95	17/41	19/48	36/97	13/33	2/5	28/69
34	3/7	14/39	26/79	5/16	10/27	5/12	3/7	3/7	31/85	6/17	9/26	17/44	23/55	3/7	3/7	17/46	21/58	21/59	2/5	13/31	3/7	3/7	37/99	15/41	4/11	7/17	29/69	3/7	3/7	20/53	15/41	10/27	31/75	8/19	3/7	3/7	20/53	1/99	3/8	17/41	35/83	3/7	3/7	35/92	1/99	17/44	37/89	19/45	3/7	3/7	35/92	1/99	2/5	5/12	41/97	3/7	3/7	35/92	1/99	7/17
35	18/43	29/80	1/3	15/47	30/83	3/7	3/7	21/50	11/29	9/26	31/89	11/30	3/7	3/7	8/19	37/94	21/59	27/76	36/97	3/7	3/7	27/64	28/69	5/14	23/64	3/8	3/7	3/7	30/71	5/12	29/79	5/14	14/37	3/7	3/7	11/26	33/79	11/29	1/99	14/37	3/7	3/7	36/85	18/43	18/47	1/99	14/37	3/7	3/7	39/92	13/31	37/94	1/99	14/37	3/7	3/7	14/33	21/50	28/69	1/99
36	9/22	15/41	15/46	1/3	6/17	18/43	18/43	7/17	35/89	31/90	32/91	5/14	38/93	18/43	12/29	24/59	35/97	34/95	4/11	2/5	18/43	27/65	9/22	25/67	25/69	4/11	31/79	18/43	5/12	30/73	15/37	4/11	4/11	37/99	18/43	33/79	33/80	11/27	15/41	1/99	27/76	18/43	18/43	12/29	9/22	35/89	1/99	32/91	38/93	5/12	39/94	39/95	13/32	35/97	1/99	2/5	38/91	37/89	7/17	31/76
37	2/5	31/84	15/47	14/43	9/25	9/22	9/22	21/52	21/53	8/23	5/14	7/19	37/95	9/22	24/59	2/5	38/99	23/63	3/8	17/45	9/22	9/22	27/67	27/68	13/35	17/45	17/45	9/22	9/22	15/37	2/5	15/38	17/45	29/83	37/95	9/22	11/27	33/82	33/83	17/45	1/99	19/51	9/22	9/22	36/89	2/5	36/91	1/99	17/47	9/22	9/22	13/32	39/97	39/98	38/99	26/71	35/89	9/22	31/76	21/52
38	9/23	16/43	5/16	7/22	19/51	2/5	2/5	21/53	7/18	17/47	7/19	11/29	23/59	2/5	2/5	24/61	12/31	3/8	5/13	9/23	2/5	2/5	27/68	9/23	27/70	7/18	9/23	3/8	2/5	2/5	15/38	30/77	9/23	9/23	15/43	2/5	2/5	33/83	11/28	9/23	16/43	1/99	36/97	2/5	2/5	36/91	9/23	12/31	7/19	3/8	2/5	2/5	39/98	13/33	23/59	22/57	25/66	5/13	2/5	2/5
39	19/47	3/8	28/89	14/45	5/13	21/53	19/47	19/47	21/55	3/8	34/97	23/59	2/5	19/47	9/23	12/31	8/21	5/13	13/33	27/67	19/47	9/23	9/23	27/70	7/18	29/73	19/47	19/47	9/23	9/23	30/77	31/79	2/5	19/47	22/57	35/99	9/23	9/23	17/43	35/87	19/47	35/93	1/99	5/13	9/23	37/93	19/47	19/47	36/95	3/8	19/49	13/33	2/5	23/57	25/63	13/34	5/13	25/64	21/53	39/97
40	5/12	18/49	29/91	4/13	35/93	11/27	5/12	5/12	3/8	7/19	34/99	2/5	25/61	5/12	31/76	8/21	3/8	24/65	27/67	7/17	5/12	33/85	18/47	27/71	35/93	15/37	31/75	5/12	21/55	18/47	18/47	2/5	11/27	17/41	5/12	4/11	31/86	18/47	35/87	9/22	37/89	5/12	11/30	1/99	35/93	19/47	39/95	5/12	5/12	36/97	1/99	2/5	28/69	7/17	12/29	31/76	1/99	1/99	39/97	11/27
41	3/7	9/25	6/19	17/53	7/19	23/55	3/7	3/7	7/19	21/58	26/75	13/34	13/31	3/7	3/7	3/7	3/8	24/65	4/11	28/71	29/69	3/7	3/7	3/8	3/8	27/73	2/5	8/19	3/7	3/7	3/8	3/8	4/11	3/8	35/83	3/7	3/7	4/11	3/8	3/8	37/89	19/45	3/7	3/7	32/87	1/99	13/34	5/12	41/97	3/7	3/7	29/78	1/99	37/96	38/91	11/26	3/7	3/7	3/8	1/99	28/71
42	21/50	17/47	22/69	1/3	35/97	3/7	3/7	8/19	35/93	21/59	7/20	19/52	3/7	3/7	27/64	7/18	4/11	4/11	24/65	3/7	3/7	30/71	31/79	18/49	25/68	24/65	3/7	3/7	11/26	32/79	18/49	18/49	24/65	3/7	3/7	36/85	18/43	17/47	1/99	18/49	3/7	3/7	39/92	13/31	35/93	1/99	24/65	3/7	3/7	14/33	21/50	7/18	1/99	24/65	3/7	3/7	31/73	37/88	9/23	1/99
43	7/17	35/96	17/53	29/92	5/14	21/50	21/50	12/29	33/85	7/20	11/31	23/63	2/5	21/50	27/65	9/22	24/67	25/69	13/35	27/71	21/50	5/12	30/73	35/96	27/73	19/51	22/57	21/50	33/79	33/80	33/85	19/51	19/51	31/85	21/50	18/43

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	3/10	3/11	1/4	3/11	5/17	1/3	1/3	1/3	1/3	6/19	3/10	2/7	7/25	4/13	1/3	1/3	1/3	1/3	9/28	9/29	3/10	5/17	11/35	1/3	1/3	1/3	1/3	12/37	6/19	4/13	13/43	7/22	1/3	1/3	1/3	1/3	15/46	15/47	5/16	4/13	17/53	1/3	1/3	1/3	1/3	18/55	9/28	6/19	19/61	10/31	1/3	1/3	1/3	1/3	21/64	21/65	7/22	11/35	23/71	1/3
2	3/11		5/17		6/19		1/3		8/23		9/25		10/27		11/29		12/31		13/33		2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53		24/55		25/57		26/59		27/61		4/9		29/65		30/67		31/69		32/71		33/73	
3	6/23	4/13	1/4	4/13	1/4	4/13	3/11	4/13	3/11	4/13	7/24	2/7	4/13	18/67	4/13	8/29	4/13	8/29	4/13	8/29	4/13	2/7	4/13	11/37	12/41	4/13	26/93	4/13	2/7	4/13	2/7	4/13	2/7	4/13	7/24	4/13	3/10	8/27	4/13	2/7	4/13	16/55	4/13	16/55	4/13	16/55	4/13	18/61	4/13	19/63	20/67	4/13	20/69	4/13	5/17	4/13	5/17	4/13	5/17	4/13
4	2/7		2/7		7/23		8/25		1/3		10/29		11/31		4/11		13/35		14/37		5/13		16/41		17/43		2/5		19/47		20/49		7/17		22/53		23/55		8/19		25/59		26/61		3/7		28/65		29/67		10/23		31/71		32/73		11/25		34/77	
5	1/3	1/3	7/23	1/3	1/4	1/3	7/22	1/3	1/3	1/3	4/13	5/16	9/28	9/29	1/3	1/3	1/3	6/19	1/3	2/7	1/3	12/37	1/3	1/3	1/3	13/41	15/47	14/43	7/22	1/3	1/3	1/3	17/53	1/3	3/10	1/3	17/52	1/3	1/3	1/3	9/28	10/31	19/58	19/59	1/3	1/3	1/3	11/34	1/3	4/13	1/3	22/67	1/3	1/3	1/3	23/71	25/77	24/73	12/37	1/3	
6	3/8		8/25		8/27		8/23		3/8		1/3		12/35		11/31		3/8		15/41		16/43		17/45		18/47		19/49		20/51		21/53		2/5		23/57		24/59		25/61		26/63		27/65		28/67		29/69		30/71		31/73		32/75		3/7		34/79		35/81	
7	3/8	6/17	1/3	6/17	7/22	6/17	3/8	3/8	3/8	9/25	9/26	1/3	1/3	11/31	3/8	3/8	3/8	4/11	6/17	12/35	6/17	14/39	3/8	3/8	3/8	15/41	5/14	15/43	8/23	17/47	3/8	3/8	3/8	18/49	9/25	6/17	19/54	4/11	3/8	3/8	3/8	7/19	21/58	21/59	11/31	23/63	3/8	3/8	3/8	24/65	4/11	24/67	5/14	26/71	3/8	3/8	3/8	27/73	27/74	9/25
8	6/17		6/19		10/31		3/8		9/25		1/3		1/3		3/8		4/11		16/45		17/47		3/8		19/51		20/53		21/55		22/57		23/59		24/61		25/63		2/5		27/67		28/69		29/71		30/73		31/75		32/77		33/79		34/81		35/83		36/85	
9	1/3	7/19	3/10	7/19	10/33	7/19	6/17	7/19	9/26	7/19	1/3	7/20	11/32	1/3	6/17	6/17	13/36	12/35	7/19	12/37	7/19	8/25	7/19	6/17	7/19	15/43	7/19	16/47	7/19	17/49	21/59	6/17	6/17	19/53	9/26	4/11	1/3	7/19	22/67	7/19	6/17	7/19	7/20	7/19	11/32	7/19	23/66	7/19	6/17	14/39	5/14	7/20	13/36	14/41	27/74	31/92	7/19	6/17	7/19	27/77
10	10/31		2/7		2/7		1/3		1/3		14/41		14/43		1/3		16/47		17/49		6/17		19/53		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23		28/71		29/73		2/5		31/77		32/79		11/27		34/83		7/17		12/29		37/89	
11	5/16	8/21	7/24	8/21	4/13	8/21	9/28	8/21	1/3	8/21	11/32	4/11	6/17	8/23	13/36	1/3	7/19	10/31	3/8	17/52	8/21	14/43	8/21	1/3	8/21	16/47	8/21	17/49	8/21	6/17	8/21	19/53	24/65	4/11	24/67	7/19	8/23	22/59	24/71	23/61	21/62	8/21	11/32	8/21	23/66	8/21	6/17	8/21	5/14	8/21	13/36	8/21	27/74	16/43	7/19	4/11	29/78	16/45	3/8	8/23
12	7/22		11/37		11/39		5/16		7/22		14/45		16/47		16/49		1/3		18/53		19/55		20/57		21/59		22/61		23/63		24/65		25/67		26/69		27/71		28/73		29/75		30/77		31/79		32/81		33/83		2/5		35/87		36/89		37/91		38/93	
13	8/23	9/23	4/13	9/23	9/28	9/23	1/3	9/23	8/23	9/23	6/17	3/8	13/36	9/25	7/19	8/23	3/8	1/3	8/21	14/43	17/44	1/3	9/23	8/23	9/23	17/49	9/23	6/17	9/23	19/53	9/23	4/11	9/23	7/19	27/71	22/59	27/73	23/61	9/25	8/21	27/77	5/13	23/66	26/67	6/17	9/23	5/14	9/23	13/36	9/23	27/74	9/23	7/19	9/23	29/78	9/23	3/8	18/47	31/82	3/8
14	3/8		13/41		9/29		11/31		3/8		16/49		12/37		14/39		3/8		1/3		20/59		17/47		3/8		23/65		24/67		4/11		3/8		27/73		28/75		29/77		30/79		31/81		32/83		33/85		34/87		35/89		36/91		37/93		2/5		39/97	
15	3/8	2/5	14/43	2/5	1/3	2/5	3/8	2/5	3/8	2/5	13/36	5/13	7/19	10/27	3/8	3/8	8/21	15/41	17/44	1/3	9/23	17/47	19/48	3/8	2/5	18/49	2/5	19/53	2/5	4/11	2/5	3/8	2/5	22/59	2/5	23/61	30/77	8/21	30/79	5/13	3/8	26/67	4/11	9/23	5/14	28/71	3/8	29/73	3/8	2/5	7/19	2/5	29/78	2/5	3/8	2/5	31/82	2/5	8/21	2/5
16	9/25		1/3		15/47		3/8		4/11		12/35		18/55		3/8		15/41		15/43		1/3		3/8		18/49		6/17		25/71		3/8		7/19		4/11		29/79		3/8		31/83		32/85		11/29		34/89		5/13		12/31		37/95		38/97		21/53		
17	9/26	11/27	9/28	11/27	16/49	11/27	9/25	11/27	13/36	11/27	7/19	11/28	3/8	11/29	8/21	11/30	17/44	11/31	9/23	11/32	19/48	1/3	2/5	9/25	21/52	19/53	11/27	4/11	11/27	7/19	11/27	22/59	11/27	23/61	11/27	8/21	11/27	5/13	33/83	26/67	33/85	9/23	11/29	28/71	33/89	29/73	27/74	2/5	7/19	31/77	29/78	32/79	3/8	11/27	31/82	11/27	8/21	11/27	33/86	11/27
18	16/47		9/29		5/17		9/26		12/35		12/37		13/41		9/26		9/26		23/65		23/67		1/3		9/26		26/73		26/75		27/77		28/79		29/81		30/83		31/85		32/87		33/89		34/91		35/93		35/93		36/95		37/97		38/99		38/99		35/93	
19	1/3	12/29	3/10	12/29	17/53	12/29	19/55	12/29	7/19	12/29	3/8	2/5	8/21	12/31	17/44	3/8	9/23	4/11	19/48	6/17	2/5	12/35	21/52	1/3	11/27	13/37	23/56	7/19	12/29	22/59	12/29	23/61	12/29	8/21	12/29	5/13	12/29	26/67	12/29	9/23	36/89	28/71	36/91	29/73	12/31	2/5	36/95	31/77	29/78	32/79	3/8	11/27	31/82	34/83	8/21	7/17	33/86	12/29	17/44	12/29
20	1/3		16/53		2/7		21/64		1/3		20/61		14/43		1/3		1/3		1/3		25/71		25/73		1/3		26/77		28/79		28/81		29/83		29/83		31/87		32/89		33/91		33/91		34/93		7/19		7/19		28/79		1/99		1/99		1/99		1/99	
21	11/31	13/31	17/55	13/31	6/19	13/31	13/38	13/31	22/61	13/31	8/21	13/32	17/44	13/33	9/23	13/34	19/48	13/35	2/5	13/36	21/52	13/37	11/27	11/31	23/56	1/3	12/29	7/20	5/12	15/41	13/31	8/21	13/31	5/13	13/31	26/67	13/31	9/23	13/31	28/71	13/31	29/73	39/95	2/5	39/97	31/77	13/33	32/79	22/57	11/27	25/66	34/83	8/21	7/17	33/86	12/29	17/44	37/89	7/18	38/91
22	3/8		6/19		12/37		14/39		3/8		22/65		1/3		17/47		3/8		11/32		11/32		4/11		3/8		1/3		21/61		23/63		3/8		31/89		32/91		26/71		3/8		34/95		11/31		29/79		1/99		1/99		1/99		1/99		1/99		1/99	
23	3/8	14/33	19/59	14/33	20/61	14/33	3/8	14/33	3/8	14/33	25/67	7/17	9/23	2/5	19/48	7/18	2/5	14/37	21/52	7/19	11/27	4/11	23/56	3/8	12/29	7/19	5/12	1/3	13/31	23/63	27/64	3/8	14/33	17/45	14/33	9/23	14/33	28/71	14/33	29/73	14/33	2/5	14/33	31/77	37/89	32/79	31/76	11/27	2/5	34/83	31/79	7/17	37/96	12/29	14/37	37/89	35/92	38/91	9/23	13/31
24	4/11		20/61		20/63		3/8		15/41		15/43		16/47		3/8		18/49		6/17		6/17		3/8		7/19		21/59		1/3		3/8		24/65		24/67		8/23		3/8		27/73		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
25	6/17	3/7	1/3	3/7	4/13	3/7	4/11	3/7	5/14	3/7	26/71	5/12	28/73	15/37	2/5	15/38	21/52	5/13	11/27	3/8	23/56	15/41	12/29	4/11	5/12	31/86	13/31	21/61	27/64	1/3	14/33	4/11	29/68	17/47	3/7	3/8	3/7	19/49	3/7	2/5	3/7	31/77	3/7	32/79	3/7	11/27	37/88	34/83	26/63	7/17	15/41	12/29	39/98	37/89	15/43	38/91	4/11	13/31	17/47	8/19
26	22/63		12/37		13/41		6/17		15/43		16/47		17/49		6/17		19/53		13/36		13/36		13/36		13/36		13/36		32/91		25/76		6/17		35/97		31/91		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
27	11/32	16/37	6/19	16/37	7/23	16/37	12/35	16/37	25/73	16/37	9/25	8/19	29/77	16/39	31/79	2/5	11/27	16/41	23/56	8/21	12/29	16/43	5/12	4/11	13/31	16/45	27/64	33/92	14/33	16/47	29/68	12/37	3/7	17/49	31/72	9/25	16/37	19/51	16/37	29/77	16/37	21/53	16/37	11/27	16/37	34/83	2/5	7/17	16/41	12/29	38/91	37/89	16/43	38/91	4/11	13/31	33/92	8/19	8/23	41/97
28	23/67		4/13		14/43		27/80		13/38		17/49		6/17		19/53		4/11		7/19		7/19		7/19		7/19		7/19		7/19		34/97		1/99		1/99		29/85		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
29	14/39	17/39	22/71	17/39	7/22	17/39	8/23	17/39	14/39	17/39	28/79	17/40	10/27	17/41	32/83	17/42	2/5	17/43	12/29	17/44	5/12	17/45	13/31	17/46	27/64	17/47	14/33	17/48	29/68	5/14	3/7	14/39	31/72	1/99	16/37	26/77	33/76	28/79	17/39	10/27	17/39	31/83	17/39	11/28	17/39	23/57	17/39	12/29	17/42	37/89	17/43	38/91	17/44	13/31	17/41	8/19	17/46	41/97	17/47	14/33
30	3/8		23/73		1/3		17/47		3/8		6/17		19/53		4/11		3/8		8/21		22/59		3/8		3/8		3/8		3/8		26/71		3/8		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
31	3/8	18/41	8/25	18/41	25/77	18/41	3/8	18/41	3/8	18/41	29/83	3/7	31/85	18/43	11/29	9/22	35/89	2/5	37/91	9/23	13/31	18/47	27/64	3/8	14/33	24/65	29/68	17/49	3/7	26/71	31/72	3/8	16/37	27/73	33/76	1/99	17/39	29/79	7/16	3/8	18/41	10/27	18/41	11/29	18/41	34/89	3/7	2/5	18/43	25/61	9/22	13/31	2/5	8/19	9/23	41/97	18/47	14/33	3/8	23/54
32	15/41		25/77		26/79		3/8		18/49		19/53		4/11		3/8		22/59		23/61		8/21		8/21		8/21		8/21		8/21		8/21		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
33	5/14	19/43	26/79	19/43	25/81	19/43	15/41	19/43	9/25	19/43	9/26	19/44	32/89	19/45	34/91	19/46	12/31	19/47	2/5	19/48	40/97	19/49	14/33	19/50	29/68	19/51	3/7	6/17	31/72	1/3	16/37	15/41	33/76	9/25	17/39	1/99	7/16	1/99	18/41	1/99	37/84	1/99	19/43	1/99	19/43	1/99	19/43	12/31	41/93	37/95	19/45	2/5	19/46	40/97	19/47	14/33	19/48	23/54	19/49	41/96
34	28/79		1/3		27/83		5/14		19/53		4/11		7/19		22/59		23/61		8/21		5/13		17/44		17/44		17/44		17/44		17/44		11/30		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
35	7/20	4/9	15/46	4/9	3/10	4/9	15/43	4/9	31/89	4/9	31/91	10/23	11/31	20/47	7/19	5/12	37/97	20/49	13/33	17/47	28/69	20/51	38/91	19/51	3/7	19/52	31/72	9/26	16/37	1/3	33/76	1/99	17/39	1/99	7/16	1/99	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	4/9	1/99	4/9	1/99	10/23	13/33	20/47	21/53	5/12	28/69	20/49	38/91	2/5	3/7
36	29/83		15/47		28/87		31/89		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23		9/23		9/23		9/23		9/23		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
37	17/47	21/47	5/16	21/47	17/52	21/47	19/54	21/47	17/47	21/47	32/95	7/16	34/97	3/7	4/11	21/50	35/93	7/17	33/85	18/49	2/5	21/53	37/90	19/52	5/12	10/27	16/37	16/47	33/76	27/77	17/39	1/99	7/16	1/99	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	21/47	1/99	21/47	1/99	7/16	1/99	3/7	1/99	21/50	39/97	7/17	37/90
38	3/8		28/89		30/91		4/11		3/8		22/59		23/61		8/21		5/13		26/67		9/23		28/71		19/48		19/48		19/48		19/48		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
39	3/8	22/49	29/91	22/49	10/31	22/49	3/8	22/49	3/8	22/49	34/99	11/25	15/44	22/51	3/8	11/26	3/8	22/53	23/60	11/27	28/71	26/71	15/37	3/8	37/89	27/73	8/19	26/75	17/39	1/99	7/16	1/99	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	22/49	1/99	22/49	1/99	11/25	1/99	22/51	1/99	11/26	1/99
40	18/49		6/19		6/19		3/8		7/19		23/61		8/21		5/13		26/67		9/23		28/71		29/73		2/5		2/5		2/5		2/5		2/5		30/83		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
41	9/25	23/51	22/69	23/51	9/28	9/20	18/49	23/51	21/58	23/51	7/20	20/49	1/99	23/53	18/49	20/51	4/11	23/55	14/37	20/53	37/95	21/55	15/38	18/49	16/39	9/25	33/80	27/77	17/40	1/99	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	23/51	1/99	23/51	1/99	23/52	1/99	23/53	1/99
42	34/95		17/53		1/99		9/25		23/64		8/21		5/13		26/67		9/23		28/71		29/73		2/5		31/77		31/77		21/52		21/52		21/52		21/52		10/29		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
43	17/48	24/53	1/3	24/53	19/58	33/73	6/17	24/53	31/88	24/53	11/32	7/17	1/99	21/52	1/99	21/53	5/14	7/18	7/19	8/23	5/13	25/73	31/80	6/17	2/5	27/77	17/41	28/81	5/12	1/99	3/7	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	24/53	1/99	24/53	1/99	4/9	1/99
44	35/99		18/55		1/99		9/26		27/76		35/93		26/67		9/23		28/71		29/73		2/5		31/77		32/79		11/27		11/27		11/27		28/69		11/27		31/89		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
45	4/11	5/11	1/99	5/11	1/3	23/51	11/31	5/11	4/11	11/26	23/66	21/52	1/99	11/27	1/99	23/56	33/91	11/28	1/99	26/73	3/8	27/77	16/41	4/11	11/28	28/81	17/42	1/99	18/43	1/99	37/88	1/99	19/44	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	5/11	1/99	5/11	1/99
46	3/8		1/99		1/99		23/63		3/8		11/30		9/23		28/71		29/73		2/5		31/77		32/79		11/27		34/83		34/83		34/83		11/27		11/29		32/89		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
47	3/8	26/57	1/99	26/57	1/99	24/53	3/8	26/57	3/8	23/54	1/99	11/27	1/99	26/67	6/17	26/69	1/99	27/73	1/99	26/73	1/99	29/79	1/99	3/8	17/43	10/27	35/88	6/17	9/22	1/99	19/45	1/99	39/92	1/99	10/23	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	26/57	1/99
48	7/19		1/99		1/99		3/8		24/65		17/47		27/71		29/73		2/5		31/77		32/79		11/27		34/83		7/17		12/29		12/29		12/29		2/5		34/91		3/8		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
49	21/58	27/59	1/99	27/59	1/99	4/9	18/49	27/59	4/11	27/65	1/99	27/67	1/99	9/23	1/99	24/59	1/99	27/73	1/99	9/25	1/99	28/79	1/99	18/49	1/99	30/83	2/5	1/99	37/92	1/99	19/46	1/99	20/47	1/99	41/96	1/99	7/16	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99
50	21/59		1/99		1/99		30/83		1/99		1/99		37/98		2/5		31/77		32/79		11/27		34/83		7/17		12/29		37/89		37/89		37/89		37/91		12/31		7/19		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
51	7/20	28/61	1/99	28/61	1/99	25/56	1/99	13/29	1/99	28/67	1/99	28/69	1/99	28/71	1/99	28/73	1/99	28/75	1/99	4/11	1/99	28/79	1/99	11/31	1/99	31/87	1/99	1/99	19/47	1/99	13/32	1/99	5/12	1/99	3/7	1/99	40/93	1/99	11/25	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99
52	11/31		1/99		1/99		1/99		1/99		1/99		19/51		30/77		32/79		11/27		34/83		7/17		12/29		37/89		38/91		13/31		13/31		13/31		2/5		37/97		4/11		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99		1/99	
53	23/63	29/63	1/99	29/63	1/99	29/65	19/66	9/20	5/14	29/69	1/99	29/71	1/99	29/73	1/99	29/75	1/99	29/77	1/99	29/79	1/99	29/81	1/99	17/47	1/99	32/89	1/99	1/99	1/99	1/99	20/49	1/99	25/61	1/99	21/50	1/99	22/51	1/99	29/67	1/99	23/52	1/99	24/53	1/99	44/97	1/99	5/11	1/99	41/90	1/99	26/57	1/99	37/81	1/99	27/59	1/99	11/24	1/99	28/61	1/99
54	3/8		1/99		1/99		26/71		3/8		1/99		1/99		29/75		11/27		34/83		7/17		12/29		37/89		38/91		13/31		8/19		8/19		8/19		40/97	

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	4/11	1/3	4/13	2/7	5/17	1/3	7/19	2/5	2/5	2/5	8/21	4/11	8/23	1/3	1/3	5/14	11/29	2/5	2/5	2/5	12/31	3/8	4/11	6/17	13/37	7/19	5/13	2/5	2/5	2/5	16/41	8/21	16/43	4/11	17/47	3/8	19/49	2/5	2/5	2/5	20/51	5/13	20/53	10/27	7/19	11/29	23/59	2/5	2/5	2/5	24/61	12/31	8/21	3/8	25/67	13/34	9/23	2/5	2/5	2/5
2	1/3	4/13	1/3	1/3	5/19	1/3	1/3	4/11	4/11	4/11	8/23	1/3	8/25	1/3	1/3	10/31	11/32	4/11	4/11	4/11	4/11	6/17	12/35	1/3	12/37	1/3	1/3	15/43	4/11	4/11	4/11	4/11	16/45	8/23	16/47	1/3	17/52	18/53	19/54	4/11	4/11	4/11	4/11	5/14	20/57	10/29	20/59	1/3	11/32	23/65	4/11	4/11	4/11	4/11	24/67	6/17	8/23	12/35	24/71
3	4/13	1/3	1/3	1/4	1/3	1/3	7/23	1/3	1/3	1/3	1/3	1/3	8/25	1/3	1/3	2/7	1/3	1/3	11/35	1/3	1/3	1/3	1/3	1/3	12/37	1/3	1/3	3/10	1/3	1/3	15/47	1/3	1/3	1/3	1/3	1/3	16/49	1/3	1/3	4/13	1/3	1/3	19/59	1/3	1/3	1/3	1/3	1/3	20/61	1/3	1/3	5/16	1/3	1/3	23/71	1/3	1/3	1/3	1/3	1/3
4	2/7	2/7	2/7	1/4	12/49	9/34	2/7	4/13	4/13	4/13	4/13	4/13	8/27	2/7	2/7	2/7	14/53	10/37	11/38	4/13	4/13	4/13	4/13	4/13	4/13	3/10	12/41	2/7	2/7	2/7	7/25	5/17	4/13	4/13	4/13	4/13	4/13	4/13	16/53	8/27	16/55	2/7	2/7	2/7	19/64	4/13	4/13	4/13	4/13	4/13	4/13	10/33	20/67	5/17	20/69	2/7	11/38	23/77	4/13
5	1/3	1/3	1/3	1/3	1/4	1/3	1/3	1/3	1/3	1/3	9/31	1/3	1/3	9/29	1/3	1/3	1/3	1/3	2/7	1/3	1/3	1/3	1/3	1/3	7/23	1/3	1/3	7/22	1/3	1/3	1/3	1/3	3/10	1/3	1/3	1/3	1/3	1/3	19/61	1/3	1/3	1/3	1/3	1/3	19/59	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	6/19	1/3	1/3	12/37	1/3
6	3/8	3/8	1/3	8/29	1/3	1/3	8/23	3/8	3/8	3/8	1/3	1/3	11/35	1/3	11/31	3/8	3/8	3/8	14/41	1/3	1/3	13/38	14/39	3/8	3/8	3/8	17/49	19/59	1/3	8/23	17/47	3/8	3/8	3/8	20/57	1/3	18/53	19/54	4/11	3/8	3/8	3/8	23/65	1/3	21/61	11/31	23/63	3/8	3/8	3/8	26/73	23/67	8/23	5/14	26/71	3/8	3/8	3/8	29/81	13/38
7	7/17	5/13	1/3	2/7	7/22	8/23	3/8	2/5	7/17	7/17	13/35	1/3	1/3	11/31	3/8	13/33	7/17	7/17	17/43	4/11	13/38	14/39	3/8	16/41	17/42	7/17	7/17	5/13	19/53	17/47	3/8	19/49	2/5	7/17	7/17	2/5	23/61	4/11	3/8	22/57	23/58	24/59	7/17	7/17	9/23	13/35	3/8	5/13	13/33	27/67	7/17	7/17	31/77	5/13	3/8	28/73	29/74	2/5	31/76	7/17
8	4/9	11/28	10/29	1/3	10/31	3/8	2/5	11/26	4/9	4/9	15/37	7/19	1/3	3/8	13/33	7/17	3/7	4/9	4/9	19/46	18/47	3/8	16/41	17/42	18/43	19/44	4/9	4/9	23/55	11/28	19/49	2/5	7/17	11/26	23/53	4/9	4/9	27/64	2/5	23/58	24/59	5/12	26/61	27/62	4/9	4/9	31/73	15/37	27/67	7/17	29/69	3/7	31/71	4/9	4/9	32/73	16/37	32/75	8/19	32/77	11/26
9	8/19	2/5	11/31	5/16	1/3	6/17	2/5	4/9	4/9	3/7	12/29	2/5	15/41	1/3	16/43	9/22	4/9	4/9	16/37	8/19	16/39	2/5	19/51	5/13	22/53	4/9	4/9	10/23	20/47	5/12	20/49	2/5	24/61	13/31	4/9	4/9	24/55	3/7	8/19	12/29	24/59	2/5	30/71	4/9	4/9	7/16	28/65	14/33	28/67	7/17	28/69	17/40	4/9	4/9	32/73	16/37	32/75	8/19	32/77	16/39
10	2/5	8/21	4/11	11/34	2/7	1/3	14/37	8/19	8/19	12/29	2/5	12/31	3/8	4/11	1/3	17/46	19/47	8/19	8/19	16/39	2/5	16/41	8/21	16/43	4/11	11/28	8/19	8/19	5/12	20/49	2/5	20/51	5/13	20/53	5/13	9/22	8/19	8/19	12/29	24/59	2/5	24/61	12/31	8/21	2/5	8/19	8/19	28/67	7/17	28/69	2/5	28/71	7/18	11/28	7/17	8/19	8/19	32/77	16/39	32/79
11	8/21	4/11	8/23	1/3	11/37	1/3	14/39	2/5	2/5	2/5	12/31	3/8	4/11	6/17	12/35	1/3	18/49	2/5	2/5	2/5	16/41	8/21	16/43	4/11	16/45	8/23	22/59	2/5	2/5	2/5	20/51	5/13	20/53	10/27	4/11	5/14	26/69	2/5	2/5	2/5	24/61	12/31	8/21	3/8	24/65	4/11	30/79	2/5	2/5	2/5	28/71	7/18	28/73	14/37	28/75	7/19	34/89	2/5	2/5	2/5
12	4/11	8/23	1/3	8/25	1/3	1/3	14/41	8/21	8/21	8/21	3/8	4/11	6/17	12/35	1/3	12/37	1/3	19/52	8/21	8/21	8/21	16/43	4/11	16/45	8/23	16/47	1/3	11/31	8/21	8/21	8/21	20/53	10/27	4/11	5/14	20/57	10/29	25/72	27/73	8/21	8/21	8/21	3/8	24/65	4/11	24/67	6/17	8/23	30/83	8/21	8/21	8/21	14/37	28/75	7/19	4/11	14/39	28/79	11/31	35/94
13	8/23	8/23	8/25	4/13	8/27	9/29	1/3	4/11	4/11	4/11	4/11	6/17	12/35	1/3	13/38	8/23	8/23	1/3	4/11	4/11	4/11	4/11	16/45	8/23	8/23	1/3	16/49	21/64	22/65	4/11	4/11	4/11	4/11	5/14	20/57	10/29	20/59	21/61	8/23	8/23	4/11	4/11	4/11	4/11	24/67	6/17	8/23	8/23	5/14	26/71	3/8	3/8	3/8	24/71	29/86	10/29	4/11	4/11	4/11	4/11	14/39	28/79
14	3/8	3/8	1/3	1/3	9/29	1/3	11/31	3/8	3/8	3/8	8/23	12/35	1/3	13/38	14/39	3/8	3/8	3/8	8/23	8/23	8/23	17/47	3/8	3/8	3/8	22/65	1/3	18/53	19/54	4/11	3/8	3/8	3/8	10/29	20/59	21/61	11/31	23/63	3/8	3/8	3/8	8/23	8/23	5/14	26/71	3/8	3/8	3/8	31/89	13/38	27/77	14/39	29/79	3/8	3/8	3/8	34/97	17/49
15	2/5	8/21	1/3	2/7	1/3	11/31	3/8	13/33	2/5	2/5	6/17	1/3	13/38	14/39	3/8	16/41	2/5	2/5	22/59	1/3	8/23	17/47	3/8	19/49	2/5	2/5	26/67	6/17	19/54	4/11	3/8	22/57	23/58	2/5	2/5	7/19	11/31	23/63	3/8	5/13	13/33	2/5	2/5	8/21	5/14	26/71	3/8	28/73	29/74	2/5	2/5	9/23	34/93	29/79	3/8	31/81	16/41	33/83	2/5	2/5
16	11/26	17/44	1/3	13/46	15/47	3/8	13/33	7/17	11/26	11/26	20/53	1/3	18/55	3/8	16/41	17/42	18/43	11/26	25/61	23/62	1/3	3/8	19/49	2/5	7/17	11/26	11/26	2/5	26/71	3/8	22/57	23/58	24/59	5/12	11/26	11/26	31/79	3/8	5/13	13/33	27/67	7/17	29/69	11/26	12/29	17/44	28/73	29/74	2/5	31/76	32/77	11/26	11/26	13/32	31/81	16/41	33/83	17/42	7/17	18/43
17	4/9	9/23	16/47	1/3	15/49	9/25	7/17	3/7	4/9	4/9	2/5	5/14	1/3	10/29	23/59	18/43	19/44	4/9	4/9	13/32	24/65	1/3	25/67	7/17	11/26	23/53	4/9	4/9	30/73	14/37	9/25	15/38	5/12	26/61	27/62	4/9	4/9	17/41	32/83	8/21	7/17	29/69	3/7	31/71	4/9	4/9	38/91	9/23	37/93	32/77	11/26	34/79	7/16	4/9	4/9	21/50	21/53	7/17	18/43	37/87
18	3/7	19/48	17/49	3/10	1/3	9/26	21/53	4/9	4/9	16/37	8/19	11/29	20/59	1/3	22/61	25/62	4/9	4/9	10/23	20/47	27/67	25/68	1/3	13/35	29/71	4/9	4/9	24/55	3/7	8/19	30/77	14/39	30/79	33/80	4/9	4/9	7/16	28/65	14/33	35/86	11/29	17/44	37/89	4/9	4/9	32/73	16/37	32/75	8/19	19/48	38/97	41/98	4/9	4/9	18/41	36/83	3/7	36/85	34/83	21/53
19	12/29	2/5	6/17	4/13	2/7	1/3	21/55	3/7	3/7	8/19	16/39	2/5	22/61	10/31	1/3	3/8	27/65	3/7	20/47	5/12	20/49	2/5	26/71	1/3	27/73	15/37	3/7	3/7	8/19	12/29	24/59	2/5	10/27	15/41	33/83	3/7	3/7	14/33	28/67	7/17	28/69	2/5	34/91	9/23	13/31	3/7	32/75	8/19	32/77	16/39	32/79	2/5	32/81	16/41	33/83	3/7	36/85	18/43	12/29	9/22
20	2/5	12/31	19/53	1/3	2/7	1/3	7/19	12/29	12/29	16/39	2/5	16/41	8/21	11/32	1/3	23/66	26/67	12/29	12/29	20/49	2/5	20/51	5/13	27/74	1/3	7/19	31/77	12/29	12/29	24/59	2/5	24/61	12/31	8/21	6/17	33/86	12/29	12/29	7/17	28/69	2/5	28/71	7/18	28/73	7/19	19/48	12/29	12/29	16/39	32/79	2/5	32/81	16/41	32/83	8/21	28/69	12/29	12/29	9/22	36/89
21	12/31	3/8	4/11	9/28	1/3	1/3	21/59	2/5	2/5	2/5	16/41	8/21	16/43	4/11	8/23	11/31	25/69	2/5	2/5	2/5	20/51	5/13	20/53	10/27	4/11	1/3	29/79	2/5	2/5	2/5	24/61	12/31	8/21	3/8	24/65	4/11	33/89	2/5	2/5	2/5	28/71	7/18	28/73	14/37	28/75	7/19	37/99	2/5	2/5	2/5	32/81	16/41	32/83	8/21	32/85	16/43	37/99	2/5	2/5	2/5
22	3/8	3/8	6/17	19/58	12/37	13/38	14/39	12/31	12/31	12/31	8/21	16/43	4/11	16/45	17/47	3/8	3/8	3/8	12/31	12/31	5/13	20/53	10/27	3/8	3/8	3/8	1/3	15/41	12/31	12/31	12/31	8/21	3/8	3/8	4/11	24/67	6/17	9/25	12/31	12/31	12/31	28/73	14/37	28/75	7/19	4/11	29/79	3/8	25/66	12/31	12/31	32/83	8/21	32/85	16/43	3/8	3/8	3/8	33/92	12/31
23	13/33	11/29	12/35	1/3	20/61	14/39	3/8	16/41	13/33	13/33	16/43	4/11	16/45	17/47	3/8	19/49	13/33	13/33	3/8	3/8	3/8	10/27	3/8	22/57	13/33	13/33	31/83	1/3	31/85	3/8	3/8	5/13	13/33	13/33	5/13	6/17	5/14	26/71	3/8	28/73	29/74	13/33	13/33	7/19	4/11	29/79	3/8	31/81	16/41	13/33	13/33	3/8	3/8	16/43	3/8	34/89	7/18	13/33	13/33	10/27
24	7/17	23/60	1/3	12/37	1/3	3/8	16/41	17/42	7/17	7/17	4/11	16/45	8/23	3/8	19/49	2/5	7/17	7/17	30/77	4/11	4/11	3/8	22/57	23/58	24/59	7/17	7/17	16/43	1/3	3/8	5/13	13/33	27/67	7/17	7/17	37/94	34/95	3/8	28/73	29/74	2/5	31/76	7/17	7/17	25/66	3/8	31/81	16/41	33/83	17/42	7/17	7/17	23/58	3/8	34/89	7/18	36/91	37/92	38/93	7/17
25	3/7	12/31	1/3	6/19	4/13	4/11	17/42	18/43	3/7	3/7	27/71	8/23	16/47	13/37	2/5	7/17	11/26	3/7	33/79	3/8	6/17	6/17	32/83	24/59	5/12	26/61	3/7	9/22	33/89	1/3	34/91	27/67	7/17	29/69	3/7	3/7	39/97	18/49	4/11	2/5	31/76	32/77	11/26	3/7	3/7	21/53	5/14	32/83	17/42	7/17	18/43	37/87	3/7	8/19	33/89	34/91	37/92	38/93	39/94	8/19
26	4/9	25/64	22/65	1/3	3/10	6/17	28/69	19/44	4/9	4/9	29/73	13/37	1/3	13/38	29/77	11/26	23/53	4/9	4/9	33/82	30/83	12/35	6/17	17/43	26/61	27/62	4/9	4/9	37/91	17/46	1/3	35/94	39/95	3/7	31/71	4/9	4/9	25/61	35/93	6/17	33/85	11/26	34/79	7/16	4/9	4/9	25/61	35/93	17/47	17/43	37/87	19/44	39/89	4/9	4/9	26/63	35/93	35/94	39/95	41/96
27	16/37	13/33	23/67	3/10	1/3	12/35	28/71	4/9	4/9	10/23	31/75	7/19	26/77	1/3	28/79	2/5	4/9	4/9	24/55	3/7	33/85	15/43	1/3	4/11	36/89	4/9	4/9	7/16	28/65	19/47	7/19	1/3	36/97	20/49	4/9	4/9	32/73	16/37	38/91	32/85	1/99	36/97	37/90	4/9	4/9	18/41	36/83	3/7	33/85	7/19	20/53	37/90	4/9	4/9	40/91	10/23	40/93	19/47	1/99	1/3
28	8/19	27/68	8/23	3/10	22/71	1/3	28/73	16/37	16/37	20/47	5/12	5/13	27/79	32/97	28/81	31/82	35/83	16/37	3/7	8/19	12/29	3/8	31/89	13/38	34/91	19/46	16/37	28/65	14/33	28/67	39/97	18/49	1/99	27/73	28/69	16/37	16/37	32/75	8/19	32/77	16/39	32/79	2/5	26/71	5/14	37/95	8/19	8/19	18/43	12/29	9/22	36/89	2/5	26/71	31/84	37/91	8/19	8/19	5/12	40/97	20/49
29	16/39	2/5	25/71	1/3	7/22	25/74	28/75	8/19	8/19	5/12	20/49	2/5	29/81	18/53	19/54	14/39	2/5	8/19	8/19	12/29	24/59	2/5	33/91	14/39	14/39	18/47	8/19	8/19	28/67	7/17	28/69	2/5	26/71	1/99	31/84	21/52	8/19	8/19	32/77	16/39	32/79	2/5	26/71	5/14	37/95	8/19	8/19	18/43	12/29	9/22	36/89	2/5	26/71	31/84	37/91	8/19	8/19	5/12	40/97	20/49
30	2/5	16/41	26/73	23/74	1/3	8/23	4/11	16/39	16/39	20/49	2/5	20/51	31/83	19/54	4/11	3/8	11/29	16/39	16/39	24/59	2/5	24/61	12/31	3/8	3/8	3/8	38/97	16/39	16/39	28/69	2/5	28/71	7/18	3/8	1/99	4/11	39/97	16/39	16/39	32/79	2/5	32/81	16/41	31/83	1/99	11/29	16/39	16/39	32/79	2/5	32/81	16/41	32/83	8/21	32/85	32/87	3/8	2/5	2/5	2/5
31	16/41	8/21	9/25	6/19	25/77	17/47	3/8	2/5	2/5	2/5	20/51	5/13	20/53	4/11	3/8	22/57	16/41	2/5	2/5	2/5	24/61	12/31	8/21	5/13	16/41	16/41	4/11	2/5	2/5	2/5	28/71	7/18	16/41	16/41	27/74	1/99	4/11	2/5	2/5	2/5	32/81	16/41	32/83	8/21	32/85	32/87	3/8	2/5	2/5	2/5	36/91	9/23	12/31	18/47	36/95	37/97	19/49	2/5	2/5	2/5
32	17/42	29/76	4/11	1/3	25/79	3/8	19/49	2/5	17/42	17/42	5/13	20/53	10/27	3/8	22/57	23/58	17/42	17/42	16/41	16/41	12/31	8/21	5/13	13/33	27/67	17/42	21/53	19/51	16/41	16/41	7/18	29/74	2/5	17/42	17/42	34/93	1/99	3/8	16/41	16/41	33/83	17/42	17/42	32/85	16/43	3/8	34/89	7/18	36/91	37/92	17/42	21/53	18/47	36/95	37/97	19/49	13/33	2/5	23/57	17/42
33	18/43	5/13	16/45	13/40	1/3	15/41	2/5	7/17	18/43	18/43	20/53	10/27	4/11	5/14	23/58	24/59	5/12	18/43	2/5	8/21	8/21	3/8	13/33	27/67	7/17	18/43	18/43	5/13	8/21	8/21	23/60	2/5	31/76	32/77	18/43	2/5	32/81	7/19	15/41	33/83	17/42	7/17	18/43	18/43	25/63	1/99	1/99	36/91	37/92	38/93	39/94	38/91	2/5	5/13	1/99	13/33	2/5	28/69	7/17	38/91
34	19/44	31/80	8/23	27/82	13/43	5/14	7/17	11/26	19/44	19/44	34/89	4/11	5/14	20/57	12/31	5/12	26/61	19/44	41/97	37/98	16/43	24/65	26/71	7/17	29/69	3/7	19/44	22/53	37/99	16/43	16/43	34/87	32/77	11/26	34/79	19/44	21/53	5/14	1/99	26/71	7/17	18/43	37/87	19/44	19/44	9/23	1/99	1/99	34/87	39/94	8/19	41/96	3/7	41/97	37/98	1/99	1/99	7/17	38/91	11/26
35	4/9	16/41	16/47	1/3	3/10	15/43	35/87	23/53	4/9	4/9	36/91	5/14	20/57	10/29	7/19	5/12	27/62	4/9	4/9	36/91	4/11	4/11	23/64	5/13	3/7	31/71	4/9	4/9	2/5	4/11	4/11	4/11	34/87	34/79	7/16	4/9	4/9	23/57	1/99	1/99	1/99	35/87	19/44	39/89	4/9	4/9	23/57	1/99	1/99	7/19	5/12	42/97	43/98	4/9	4/9	23/57	1/99	1/99	37/95	3/7
36	10/23	11/28	29/85	16/49	1/3	15/44	35/89	4/9	4/9	24/55	38/93	17/47	10/29	11/32	34/97	39/98	4/9	4/9	7/16	27/65	25/66	21/59	6/17	19/53	39/98	4/9	4/9	32/73	16/37	11/28	16/45	1/99	19/53	32/79	4/9	4/9	18/41	36/83	37/93	1/99	1/99	32/79	4/9	4/9	40/91	10/23	38/93	1/99	1/99	32/79	4/9	4/9	11/25	27/62	35/83	25/66	1/99	1/99
37	20/47	17/43	10/29	8/25	17/52	18/53	5/13	10/23	10/23	3/7	8/19	3/8	20/59	17/49	11/31	19/50	23/54	10/23	28/65	14/33	17/43	19/53	5/14	17/47	27/73	28/69	10/23	16/37	32/75	8/19	3/8	17/47	1/99	29/79	2/5	10/23	36/83	3/7	36/85	2/5	1/99	1/99	1/99	32/81	10/23	10/23	40/93	20/47	8/19	3/8	1/99	1/99	19/50	23/54	33/76	22/51	41/96	11/26	2/5	1/99
38	5/12	35/88	31/89	1/3	30/91	19/54	35/93	20/47	20/47	8/19	12/29	19/49	21/61	11/31	23/63	3/8	31/76	20/47	14/33	28/67	7/17	30/79	26/71	3/8	3/8	11/28	20/47	20/47	8/19	32/77	16/39	3/8	3/8	3/8	35/93	31/76	20/47	36/85	18/43	12/29	35/88	1/99	1/99	1/99	39/98	20/47	20/47	8/19	5/12	40/97	19/49	1/99	1/99	11/28	28/67	31/73	11/26	31/74	22/53	37/90
39	20/49	2/5	32/91	4/13	1/3	4/11	3/8	5/12	5/12	12/29	24/59	2/5	31/87	23/63	3/8	5/13	19/49	5/12	5/12	7/17	28/69	2/5	3/8	28/73	19/49	19/49	38/93	5/12	32/77	16/39	32/79	2/5	19/49	19/49	1/99	8/21	5/12	5/12	12/29	9/22	36/89	2/5	1/99	1/99	25/64	5/12	5/12	40/97	20/49	40/99	2/5	1/99	1/99	3/8	38/93	37/89	22/53	37/90	11/27
40	2/5	20/51	11/31	16/53	9/29	3/8	22/57	20/49	20/49	24/59	2/5	24/61	31/84	3/8	5/13	13/33	2/5	20/49	20/49	28/69	2/5	28/71	28/73	29/74	2/5	2/5	5/13	20/49	20/49	32/79	2/5	32/81	33/83	2/5	35/92	1/99	17/44	20/49	20/49	36/89	2/5	2/5	2/5	33/92	1/99	1/99	19/49	20/49	20/49	40/99	2/5	21/53	20/51	1/99	1/99	29/75	31/79	11/27	11/27	23/57
41	7/17	5/13	34/95	1/3	17/56	18/49	23/58	24/59	7/17	7/17	24/61	12/31	8/21	3/8	33/97	28/71	7/17	29/69	11/26	35/87	20/51	7/18	28/73	14/37	31/76	32/77	11/26	11/26	37/96	20/51	20/51	16/41	17/42	7/17	18/43	11/26	11/26	3/8	1/99	20/51	20/51	38/93	39/94	8/19	11/26	35/86	1/99	1/99	1/99	28/69	7/17	38/91	11/26	11/26	24/61	1/99	1/99	28/71	9/22	29/70	34/81
42	11/26	37/96	35/97	9/29	1/3	9/25	24/59	5/12	11/26	11/26	12/31	8/21	3/8	33/97	28/71	7/17	29/69	11/26	35/87	20/51	7/18	28/73	14/37	31/76	32/77	11/26	11/26	37/96	20/51	20/51	16/41	17/42	7/17	18/43	11/26	11/26	3/8	1/99	20/51	20/51	38/93	39/94	8/19	11/26	35/86	1/99	1/99	1/99	28/69	7/17	38/91	11/26	11/26	24/61	1/99	1/99	28/71	9/22	29/70	34/81
43	23/53	19/49	4/11	28/89	16/55	6/17	31/76	26/61	42/97	23/53	8/21	3/8	24/65	4/11	35/94	29/69	3/7	23/53	22/53	28/73	28/73	14/37	28/75	30/77	11/26	34/79	23/53	2/5	5/13	5/13	5/13	8/21	18/43	37/87	19/44	23/53	35/89	1/99	1/99	30/91	5/13	8/19	41/96	42/97

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/6	1/5	1/5	1/5	1/5	2/11	1/5	1/5	1/5	1/5	3/16	1/5	1/5	1/5	1/5	4/21	1/5	1/5	1/5	1/5	5/26	1/5	1/5	1/5	1/5	6/31	1/5	1/5	1/5	1/5	7/36	1/5	1/5	1/5	8/41	1/5	1/5	1/5	1/5	9/46	1/5	1/5	1/5	10/51	1/5	1/5	1/5	1/5	1/5	1/5
2	1/4	1/4	1/5	1/4	1/4	1/4	3/14	1/4	1/4	1/4	2/9	1/4	1/4	1/4	5/22	1/4	1/4	1/4	3/13	1/4	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4
3	1/4	2/9	1/4	1/4	1/4	3/13	1/4	1/4	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57
4	2/9	1/4	1/4	1/4	3/13	1/4	1/4	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4
5	1/5	2/9	2/9	2/9	3/14	1/5	2/9	2/9	2/9	4/19	2/9	2/9	2/9	5/23	5/24	2/9	2/9	2/9	3/14	2/9	2/9	2/9	7/32	7/33	2/9	2/9	2/9	8/37	2/9	2/9	2/9	9/41	3/14	2/9	2/9	2/9	5/23	2/9	2/9	2/9	11/50	11/51	2/9	2/9	2/9	12/55	2/9	2/9	2/9	13/59
6	1/4	1/4	3/14	1/4	1/4	1/4	2/9	1/4	1/4	1/4	5/22	1/4	1/4	1/4	3/13	1/4	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4
7	1/4	3/13	1/4	1/4	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61
8	3/13	1/4	1/4	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4
9	3/14	3/13	3/13	3/13	2/9	3/14	3/13	3/13	5/22	5/23	3/13	3/13	3/13	2/9	3/13	3/13	3/13	7/31	9/41	3/13	3/13	8/35	2/9	3/13	3/13	3/13	9/40	3/13	3/13	3/13	5/22	2/9	3/13	3/13	11/48	11/49	3/13	3/13	3/13	12/53	3/13	3/13	3/13	13/58	3/13	3/13	14/61	7/31	3/13
10	1/4	1/4	2/9	1/4	1/4	5/22	1/4	1/4	1/4	3/13	1/4	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4
11	1/4	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65
12	4/17	1/4	1/4	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4
13	2/9	4/17	4/17	4/17	5/22	2/9	4/17	4/17	3/13	2/9	4/17	4/17	7/30	7/31	4/17	4/17	4/17	8/35	4/17	4/17	4/17	3/13	12/53	4/17	4/17	10/43	5/22	4/17	4/17	11/47	11/48	4/17	4/17	4/17	3/13	4/17	4/17	4/17	13/56	8/35	4/17	4/17	7/30	14/61	4/17	4/17	15/64	3/13	4/17	4/17
14	1/4	1/4	5/22	1/4	1/4	1/4	3/13	1/4	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4
15	1/4	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69
16	5/21	1/4	1/4	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4
17	5/22	5/21	5/21	5/21	3/13	5/22	5/21	5/21	7/30	5/22	5/21	5/21	4/17	8/35	5/21	5/21	9/38	3/13	5/21	5/21	5/21	10/43	5/21	5/21	5/21	11/47	3/13	5/21	5/21	4/17	3/13	5/21	5/21	13/55	13/56	5/21	5/21	14/59	7/30	5/21	5/21	5/21	15/64	5/21	5/21	5/21	4/17	10/43	5/21	5/21
18	1/4	1/4	3/13	1/4	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4
19	1/4	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73
20	6/25	1/4	1/4	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4
21	3/13	6/25	6/25	6/25	7/30	3/13	6/25	6/25	4/17	3/13	6/25	6/25	9/38	3/13	6/25	6/25	5/21	10/43	6/25	6/25	11/46	11/47	6/25	6/25	6/25	4/17	6/25	6/25	6/25	13/55	18/77	6/25	6/25	14/59	18/77	6/25	6/25	5/21	15/64	6/25	6/25	16/67	4/17	6/25	6/25	17/71	17/72	6/25	6/25	6/25
22	1/4	1/4	7/30	1/4	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4
23	1/4	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77
24	7/29	1/4	1/4	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4
25	7/30	7/29	7/29	7/29	4/17	7/30	7/29	7/29	9/38	7/30	7/29	7/29	5/21	7/30	7/29	7/29	11/46	11/47	7/29	7/29	6/25	4/17	7/29	7/29	13/54	13/55	7/29	7/29	7/29	14/59	7/29	7/29	7/29	5/21	21/89	7/29	7/29	16/67	21/89	7/29	7/29	17/71	17/72	7/29	7/29	6/25	9/38	7/29	7/29	19/79
26	1/4	1/4	4/17	1/4	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4
27	1/4	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81
28	8/33	1/4	1/4	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4
29	4/17	8/33	8/33	8/33	9/38	4/17	8/33	8/33	5/21	4/17	8/33	8/33	11/46	4/17	8/33	8/33	6/25	4/17	8/33	8/33	13/54	13/55	8/33	8/33	7/29	14/59	8/33	8/33	15/62	5/21	8/33	8/33	8/33	16/67	8/33	8/33	8/33	17/71	19/80	8/33	8/33	6/25	19/80	8/33	8/33	19/79	19/80	8/33	8/33	20/83
30	1/4	1/4	9/38	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4
31	1/4	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85
32	9/37	1/4	1/4	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4
33	9/38	9/37	9/37	9/37	5/21	9/38	9/37	9/37	11/46	9/38	9/37	9/37	6/25	9/38	9/37	9/37	13/54	9/38	9/37	9/37	7/29	14/59	9/37	9/37	15/62	5/21	9/37	9/37	8/33	16/67	9/37	9/37	17/70	17/71	9/37	9/37	9/37	6/25	9/37	9/37	9/37	19/79	16/67	9/37	9/37	20/83	16/67	9/37	9/37	7/29
34	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4	21/86	1/4	1/4	1/4
35	1/4	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89
36	10/41	1/4	1/4	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4
37	5/21	10/41	10/41	10/41	11/46	5/21	10/41	10/41	6/25	5/21	10/41	10/41	13/54	5/21	10/41	10/41	7/29	5/21	10/41	10/41	15/62	5/21	10/41	10/41	8/33	16/67	10/41	10/41	17/70	17/71	10/41	10/41	9/37	6/25	10/41	10/41	19/78	19/79	10/41	10/41	10/41	20/83	10/41	10/41	10/41	7/29	6/25	10/41	10/41	22/91
38	1/4	1/4	11/46	1/4	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4	21/86	1/4	1/4	1/4	11/45	1/4	1/4	1/4
39	1/4	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93
40	11/45	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93	1/4
41	11/46	11/45	11/45	11/45	6/25	11/46	11/45	11/45	13/54	11/46	11/45	11/45	7/29	11/46	11/45	11/45	15/62	11/46	11/45	11/45	8/33	11/46	11/45	11/45	17/70	17/71	11/45	11/45	9/37	6/25	11/45	11/45	19/78	19/79	11/45	11/45	10/41	20/83	11/45	11/45	21/86	7/29	11/45	11/45	11/45	22/91	11/45	11/45	11/45	23/95
42	1/4	1/4	6/25	1/4	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4	21/86	1/4	1/4	1/4	11/45	1/4	1/4	1/4	23/94	1/4	1/4	1/4
43	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93	1/4	1/4	1/4	24/97
44	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93	1/4	1/4	1/4	24/97	1/4
45	6/25	12/49	12/49	12/49	13/54	6/25	12/49	12/49	7/29	6/25	12/49	12/49	15/62	6/25	12/49	12/49	8/33	6/25	12/49	12/49	17/70	6/25	12/49	12/49	9/37	6/25	12/49	12/49	19/78	19/79	12/49	12/49	10/41	20/83	12/49	12/49	21/86	7/29	12/49	12/49	11/45	22/91	12/49	12/49	23/94	23/95	12/49	12/49	12/49	8/33
46	1/4	1/4	13/54	1/4	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4	21/86	1/4	1/4	1/4	11/45	1/4	1/4	1/4	23/94	1/4	1/4	1/4	12/49	1/4	1/4	1/4
47	1/4	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93	1/4	1/4	1/4	24/97	1/4	1/4	1/4	24/97
48	13/53	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	16/65	1/4	1/4	1/4	17/69	1/4	1/4	1/4	18/73	1/4	1/4	1/4	19/77	1/4	1/4	1/4	20/81	1/4	1/4	1/4	21/85	1/4	1/4	1/4	22/89	1/4	1/4	1/4	23/93	1/4	1/4	1/4	24/97	1/4	1/4	1/4	24/97	1/4
49	13/54	13/53	13/53	13/53	7/29	13/54	13/53	13/53	15/62	13/54	13/53	13/53	8/33	13/54	13/53	13/53	17/70	13/54	13/53	13/53	9/37	13/54	13/53	13/53	19/78	13/54	13/53	13/53	10/41	20/83	13/53	13/53	21/86	7/29	13/53	13/53	11/45	22/91	13/53	13/53	23/94	23/95	13/53	13/53	12/49	8/33	13/53	13/53	13/53	17/70
50	1/4	1/4	7/29	1/4	1/4	1/4	15/62	1/4	1/4	1/4	8/33	1/4	1/4	1/4	17/70	1/4	1/4	1/4	9/37	1/4	1/4	1/4	19/78	1/4	1/4	1/4	10/41	1/4	1/4	1/4	21/86	1/4	1/4	1/4	11/45	1/4	1/4	1/4	23/94	1/4	1/4	1/4	12/49	1/4	1/4	1/4	13/53	1/4	1/4	1/4

Table. Lower bounds on $\overline{a}(S)$ for $S = \{1, 2, 3, 3+k, 3+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/5	1/3	1/3	3/13	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3
2	1/4	1/5	1/4	1/4	3/13	1/4	4/19	1/4	1/4	2/9	1/4	1/4	5/21	1/4	2/9	1/4	1/4	3/13	1/4	1/4	7/29	1/4	8/35	1/4	1/4	4/17	1/4	1/4	9/37	1/4	10/43	1/4	1/4	5/21	1/4	1/4	11/45	1/4	4/17	1/4	1/4	6/25	1/4	1/4	13/53	1/4	14/59	1/4	1/4	7/29
3	1/3	3/11	1/3	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59
4	3/13	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3
5	3/11	3/13	3/11	3/11	1/4	3/11	6/25	5/19	3/11	5/21	3/11	3/11	1/4	3/11	3/11	7/27	3/11	1/4	4/15	3/11	1/4	3/11	3/11	9/35	3/11	3/11	5/19	3/11	12/47	11/41	3/11	11/43	3/11	6/23	3/11	3/11	13/49	3/11	15/58	7/26	3/11	7/27	3/11	3/11	5/19	3/11	4/15	3/11
6	1/3	2/7	1/3	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31
7	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3
8	2/7	1/4	2/7	2/7	5/19	2/7	8/31	3/11	2/7	1/4	7/25	2/7	7/27	2/7	2/7	4/15	2/7	2/7	3/11	2/7	4/15	5/18	2/7	5/19	11/39	2/7	11/41	2/7	2/7	3/11	2/7	2/7	13/47	2/7	16/59	7/25	2/7	7/26	15/53	2/7	3/11	2/7	2/7	8/29	2/7	2/7	17/61	2/7	20/73	9/32
9	1/3	5/17	1/3	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65
10	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3
11	5/17	5/19	5/17	5/17	3/11	5/17	10/37	7/25	5/17	6/23	2/7	5/17	4/15	9/31	5/17	3/11	5/17	5/17	5/18	5/17	5/17	11/39	5/17	5/18	2/7	5/17	3/11	13/45	5/17	13/47	7/24	5/17	7/25	5/17	5/17	15/53	5/17	5/17	2/7	5/17	20/71	17/59	5/17	17/61	9/31	5/17	9/32	19/65	5/17	19/67
12	1/3	3/10	1/3	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34
13	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3
14	3/10	3/11	3/10	3/10	7/25	3/10	12/43	2/7	3/10	7/26	9/31	3/10	3/11	5/17	3/10	5/18	11/37	3/10	11/39	3/10	3/10	2/7	3/10	3/10	13/45	3/10	2/7	7/24	3/10	7/25	5/17	3/10	15/53	8/27	3/10	2/7	17/57	3/10	17/59	3/10	3/10	9/31	3/10	3/10	19/65	3/10	24/83	5/17	3/10	2/7
15	1/3	7/23	1/3	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71
16	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3
17	7/23	7/25	7/23	7/23	2/7	7/23	2/7	9/31	7/23	8/29	5/17	7/23	17/61	11/37	7/23	11/39	3/10	7/23	2/7	13/43	7/23	13/45	7/23	7/23	7/24	7/23	7/23	5/17	7/23	7/24	8/27	7/23	2/7	17/57	7/23	17/59	3/10	7/23	9/31	19/63	7/23	19/65	10/33	7/23	5/17	7/23	7/23	21/71	7/23	7/23
18	1/3	4/13	1/3	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37
19	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3
20	4/13	2/7	4/13	4/13	9/31	4/13	16/55	5/17	4/13	9/32	11/37	4/13	19/67	3/10	4/13	2/7	13/43	4/13	13/45	7/23	4/13	7/24	15/49	4/13	5/17	4/13	4/13	8/27	4/13	4/13	17/57	4/13	8/27	3/10	4/13	9/31	19/63	4/13	19/65	10/33	4/13	5/17	7/23	4/13	21/71	11/36	4/13	11/37	23/75	4/13
21	1/3	9/29	1/3	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77
22	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3
23	9/29	9/31	9/29	9/29	5/17	9/29	18/61	11/37	9/29	2/7	3/10	9/29	21/73	13/43	9/29	11/38	7/23	9/29	7/24	15/49	9/29	5/17	4/13	9/29	8/27	17/55	9/29	17/57	9/29	9/29	3/10	9/29	9/29	19/63	9/29	3/10	10/33	9/29	5/17	7/23	9/29	21/71	11/36	9/29	11/37	23/75	9/29	23/77	4/13	9/29
24	1/3	5/16	1/3	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40
25	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3
26	5/16	5/17	5/16	5/16	11/37	5/16	20/67	3/10	5/16	11/38	13/43	5/16	23/79	7/23	5/16	12/41	15/49	5/16	5/17	4/13	5/16	8/27	17/55	5/16	17/57	9/29	5/16	3/10	19/61	5/16	19/63	5/16	5/16	10/33	5/16	5/16	7/23	5/16	10/33	11/36	5/16	11/37	23/75	5/16	23/77	4/13	5/16	3/10	25/81	5/16
27	1/3	11/35	1/3	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83
28	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3
29	11/35	11/37	11/35	11/35	3/10	11/35	22/73	13/43	11/35	12/41	7/23	11/35	5/17	15/49	11/35	13/44	4/13	11/35	27/91	17/55	11/35	17/57	9/29	11/35	3/10	19/61	11/35	19/63	5/16	11/35	10/33	21/67	11/35	7/23	11/35	11/35	11/36	11/35	11/35	23/75	11/35	11/36	4/13	11/35	3/10	25/81	11/35	25/83	13/42	11/35
30	1/3	6/19	1/3	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43
31	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3
32	6/19	3/10	6/19	6/19	13/43	6/19	24/79	7/23	6/19	13/44	15/49	6/19	27/91	4/13	6/19	14/47	17/55	6/19	29/97	9/29	6/19	3/10	19/61	6/19	19/63	5/16	6/19	10/33	21/67	6/19	7/23	11/35	6/19	11/36	23/73	6/19	23/75	6/19	6/19	4/13	6/19	6/19	25/81	6/19	4/13	13/42	6/19	13/43	9/29	6/19
33	1/3	13/41	1/3	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89
34	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3
35	13/41	13/43	13/41	13/41	7/23	13/41	26/85	15/49	13/41	14/47	4/13	13/41	29/97	17/55	13/41	3/10	9/29	13/41	28/93	19/61	13/41	16/53	5/16	13/41	10/33	21/67	13/41	7/23	11/35	13/41	11/36	23/73	13/41	23/75	6/19	13/41	4/13	25/79	13/41	25/81	13/41	13/41	13/42	13/41	13/41	9/29	13/41	13/42	14/45	13/41
36	1/3	7/22	1/3	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46
37	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3
38	7/22	7/23	7/22	7/22	15/49	7/22	4/13	4/13	7/22	3/10	17/55	7/22	28/93	9/29	7/22	16/53	19/61	7/22	23/76	5/16	7/22	17/56	21/67	7/22	7/23	11/35	7/22	11/36	23/73	7/22	23/75	6/19	7/22	4/13	25/79	7/22	25/81	13/41	7/22	13/42	27/85	7/22	9/29	7/22	7/22	14/45	7/22	4/13	29/93	7/22
39	1/3	15/47	1/3	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95
40	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3
41	15/47	15/49	15/47	15/47	4/13	15/47	30/97	17/55	15/47	16/53	9/29	15/47	23/76	19/61	15/47	17/56	5/16	15/47	7/23	21/67	15/47	18/59	11/35	15/47	26/85	23/73	15/47	23/75	6/19	15/47	4/13	25/79	15/47	25/81	13/41	15/47	13/42	27/85	15/47	9/29	7/22	15/47	14/45	29/91	15/47	29/93	15/47	15/47	5/16	15/47
42	1/3	8/25	1/3	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49
43	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3
44	8/25	4/13	8/25	8/25	17/55	8/25	23/74	9/29	8/25	17/56	19/61	8/25	7/23	5/16	8/25	18/59	21/67	8/25	26/85	11/35	8/25	19/62	23/73	8/25	27/88	6/19	8/25	4/13	25/79	8/25	25/81	13/41	8/25	13/42	27/85	8/25	9/29	7/22	8/25	14/45	29/91	8/25	29/93	15/47	8/25	5/16	31/97	8/25	31/99	8/25
45	1/3	17/53	1/3	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52
46	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3
47	17/53	17/55	17/53	17/53	9/29	17/53	29/93	19/61	17/53	18/59	5/16	17/53	26/85	21/67	17/53	19/62	11/35	17/53	27/88	23/73	17/53	4/13	6/19	17/53	29/94	25/79	17/53	21/68	13/41	17/53	13/42	27/85	17/53	9/29	7/22	17/53	14/45	29/91	17/53	29/93	15/47	17/53	5/16	31/97	17/53	31/99	8/25	17/53	16/51	25/78
48	1/3	9/28	1/3	1/3	19/59	1/3	1/3	10/31	1/3	1/3	21/65	1/3	1/3	11/34	1/3	1/3	23/71	1/3	1/3	12/37	1/3	1/3	25/77	1/3	1/3	13/40	1/3	1/3	27/83	1/3	1/3	14/43	1/3	1/3	29/89	1/3	1/3	15/46	1/3	1/3	31/95	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	17/52
49	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	8/25	1/3	1/3	31/97	1/3	1/3	25/78	1/3	1/3	17/53	1/3	1/3	17/53
50	9/28	9/29	9/28	9/28	19/61	9/28	31/99	5/16	9/28	26/85	21/67	9/28	27/88	11/35	9/28	4/13	23/73	9/28	29/94	6/19	9/28	21/68	25/79	9/28	30/97	13/41	9/28	22/71	27/85	9/28	9/29	7/22	9/28	14/45	29/91	9/28	29/93	15/47	9/28	5/16	31/97	9/28	31/99	8/25	9/28	16/51	25/78	9/28	11/35	17/53

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{1, 2, 4, 4+k, 4+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/4	2/7	2/7	3/11	1/4	2/7	2/7	4/15	2/7	2/7	5/18	5/19	2/7	2/7	3/11	2/7	2/7	7/25	7/26	2/7	2/7	8/29	2/7	2/7	9/32	3/11	2/7	2/7	5/18	2/7	2/7	11/39	11/40	2/7	2/7	12/43	2/7	2/7	13/46	13/47	2/7	2/7	7/25	2/7	2/7	15/53	5/18	2/7	2/7	16/57
2	1/3	1/4	1/3	1/3	4/17	1/3	1/3	1/4	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62
3	3/10	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3
4	3/11	3/10	3/10	2/7	4/15	3/10	5/17	5/18	3/10	3/10	2/7	3/10	3/10	7/24	7/25	3/10	8/27	2/7	3/10	3/10	9/31	3/10	3/10	5/17	2/7	3/10	11/37	11/38	3/10	3/10	12/41	3/10	3/10	13/44	13/45	3/10	14/47	7/24	3/10	3/10	5/17	3/10	3/10	8/27	16/55	3/10	17/57	17/58	3/10	3/10
5	1/3	3/11	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13
6	4/13	1/3	1/3	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3
7	2/7	4/13	4/13	5/17	5/18	4/13	3/10	2/7	4/13	7/23	7/24	4/13	4/13	8/27	4/13	4/13	3/10	9/31	4/13	10/33	5/17	4/13	11/36	11/37	4/13	4/13	3/10	4/13	4/13	13/43	13/44	4/13	7/23	14/47	4/13	15/49	3/10	4/13	4/13	16/53	4/13	4/13	17/56	17/57	4/13	18/59	3/10	4/13	19/62	19/63
8	1/3	2/7	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68
9	5/16	1/3	1/3	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3
10	5/17	5/16	5/16	3/10	2/7	5/16	7/23	7/24	5/16	4/13	8/27	5/16	9/29	3/10	5/16	5/16	10/33	5/16	5/16	11/36	11/37	5/16	4/13	3/10	5/16	13/42	13/43	5/16	14/45	7/23	5/16	5/16	15/49	5/16	5/16	4/13	16/53	5/16	17/55	17/56	5/16	9/29	18/59	5/16	19/61	19/62	5/16	4/13	5/16	21/68
11	1/3	5/17	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	5/17	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71
12	6/19	1/3	1/3	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3
13	3/10	6/19	6/19	7/23	12/41	6/19	4/13	8/27	6/19	9/29	3/10	6/19	5/16	10/33	6/19	11/35	11/36	6/19	6/19	4/13	6/19	6/19	13/42	13/43	6/19	14/45	7/23	6/19	5/16	15/49	6/19	16/51	4/13	6/19	17/54	17/55	6/19	6/19	9/29	6/19	6/19	19/61	19/62	6/19	5/16	4/13	6/19	21/67	21/68	6/19
14	1/3	3/10	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	3/10	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74
15	7/22	1/3	1/3	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3
16	7/23	7/22	7/22	4/13	14/47	7/22	9/29	3/10	7/22	5/16	10/33	7/22	11/35	11/36	7/22	6/19	4/13	7/22	13/41	13/42	7/22	7/22	14/45	7/22	7/22	5/16	15/49	7/22	16/51	4/13	7/22	17/54	17/55	7/22	6/19	9/29	7/22	19/60	19/61	7/22	20/63	5/16	7/22	7/22	21/67	7/22	7/22	11/35	22/71	7/22
17	1/3	7/23	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	7/23	1/3	1/3	7/23	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77
18	8/25	1/3	1/3	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3
19	4/13	8/25	8/25	9/29	16/53	8/25	5/16	2/7	8/25	11/35	11/36	8/25	6/19	4/13	8/25	13/41	13/42	8/25	7/22	14/45	8/25	15/47	5/16	8/25	8/25	16/51	8/25	8/25	17/54	17/55	8/25	6/19	9/29	8/25	19/60	19/61	8/25	20/63	5/16	8/25	7/22	21/67	8/25	22/69	11/35	8/25	23/72	23/73	8/25	8/25
20	1/3	4/13	1/3	1/3	2/7	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	4/13	1/3	1/3	4/13	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16
21	9/28	1/3	1/3	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3
22	9/29	9/28	9/28	5/16	18/59	9/28	11/35	9/31	9/28	6/19	4/13	9/28	13/41	13/42	9/28	7/22	14/45	9/28	15/47	5/16	9/28	8/25	16/51	9/28	17/53	17/54	9/28	9/28	6/19	9/28	9/28	19/60	19/61	9/28	20/63	5/16	9/28	7/22	21/67	9/28	22/69	11/35	9/28	23/72	23/73	9/28	8/25	6/19	9/28	25/78
23	1/3	9/29	1/3	1/3	11/38	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	9/29	1/3	1/3	9/29	1/3	1/3	9/29	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83
24	10/31	1/3	1/3	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3
25	5/16	10/31	10/31	11/35	4/13	10/31	6/19	5/17	10/31	13/41	21/71	10/31	7/22	14/45	10/31	15/47	5/16	10/31	8/25	16/51	10/31	17/53	17/54	10/31	9/28	6/19	10/31	19/59	19/60	10/31	10/31	20/63	10/31	10/31	7/22	21/67	10/31	22/69	11/35	10/31	23/72	23/73	10/31	8/25	6/19	10/31	25/78	25/79	10/31	26/81
26	1/3	5/16	1/3	1/3	12/41	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	5/16	1/3	1/3	5/16	1/3	1/3	5/16	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86
27	11/34	1/3	1/3	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3
28	11/35	11/34	11/34	6/19	22/71	11/34	13/41	11/37	11/34	7/22	24/83	11/34	15/47	5/16	11/34	8/25	16/51	11/34	17/53	17/54	11/34	9/28	6/19	11/34	19/59	19/60	11/34	10/31	20/63	11/34	21/65	7/22	11/34	11/34	22/69	11/34	11/34	23/72	23/73	11/34	8/25	6/19	11/34	25/78	25/79	11/34	26/81	13/41	11/34	9/28
29	1/3	11/35	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	11/35	1/3	1/3	11/35	1/3	1/3	11/35	1/3	1/3	11/35	1/3	1/3	28/89
30	12/37	1/3	1/3	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3
31	6/19	12/37	12/37	13/41	24/77	12/37	7/22	3/10	12/37	15/47	26/89	12/37	8/25	13/43	12/37	17/53	17/54	12/37	9/28	6/19	12/37	19/59	19/60	12/37	10/31	20/63	12/37	21/65	7/22	12/37	11/34	22/69	12/37	23/71	23/72	12/37	12/37	8/25	12/37	12/37	25/78	25/79	12/37	26/81	13/41	12/37	9/28	27/85	12/37	28/87
32	1/3	6/19	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	6/19	1/3	1/3	6/19	1/3	1/3	6/19	1/3	1/3	6/19
33	13/40	1/3	1/3	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3
34	13/41	13/40	13/40	7/22	26/83	13/40	15/47	13/43	13/40	8/25	28/95	13/40	17/53	8/27	13/40	9/28	6/19	13/40	19/59	19/60	13/40	10/31	20/63	13/40	21/65	7/22	13/40	11/34	22/69	13/40	23/71	23/72	13/40	12/37	8/25	13/40	25/77	25/78	13/40	13/40	26/81	13/40	13/40	9/28	27/85	13/40	28/87	7/22	13/40	29/90
35	1/3	13/41	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	13/41	1/3	1/3	13/41	1/3	1/3	13/41
36	14/43	1/3	1/3	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3
37	7/22	14/43	14/43	15/47	28/89	14/43	8/25	7/23	14/43	17/53	19/64	14/43	9/28	17/57	14/43	19/59	27/88	14/43	10/31	20/63	14/43	21/65	7/22	14/43	11/34	22/69	14/43	23/71	23/72	14/43	12/37	8/25	14/43	25/77	25/78	14/43	13/40	26/81	14/43	27/83	9/28	14/43	14/43	28/87	7/22	27/83	29/90	29/91	14/43	10/31
38	1/3	7/22	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	7/22	1/3	1/3	7/22
39	15/46	1/3	1/3	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3
40	15/47	15/46	15/46	8/25	6/19	15/46	17/53	15/49	15/46	9/28	29/97	15/46	19/59	3/10	15/46	10/31	19/63	15/46	21/65	7/22	15/46	11/34	22/69	15/46	23/71	23/72	15/46	12/37	8/25	15/46	25/77	25/78	15/46	13/40	26/81	15/46	27/83	9/28	15/46	14/43	28/87	15/46	29/89	29/90	15/46	15/46	10/31	15/47	29/89	31/96
41	1/3	15/47	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	22/69
42	16/49	1/3	1/3	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3
43	8/25	16/49	16/49	17/53	19/60	16/49	9/28	4/13	16/49	19/59	28/93	16/49	10/31	19/63	16/49	21/65	10/33	16/49	11/34	9/29	16/49	23/71	23/72	16/49	12/37	8/25	16/49	25/77	25/78	16/49	13/40	26/81	16/49	27/83	9/28	16/49	14/43	28/87	16/49	29/89	29/90	16/49	15/46	10/31	16/49	31/95	31/96	16/49	16/49	32/99
44	1/3	8/25	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25
45	17/52	1/3	1/3	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3
46	17/53	17/52	17/52	9/28	27/85	17/52	19/59	17/55	17/52	10/31	23/76	17/52	21/65	27/89	17/52	11/34	7/23	17/52	23/71	11/36	17/52	12/37	8/25	17/52	25/77	25/78	17/52	13/40	26/81	17/52	27/83	9/28	17/52	14/43	28/87	17/52	29/89	29/90	17/52	15/46	10/31	17/52	31/95	31/96	17/52	16/49	32/99	17/52	17/52	11/34
47	1/3	17/53	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78
48	18/55	1/3	1/3	19/58	1/3	1/3	20/61	1/3	1/3	21/64	1/3	1/3	22/67	1/3	1/3	23/70	1/3	1/3	24/73	1/3	1/3	25/76	1/3	1/3	26/79	1/3	1/3	27/82	1/3	1/3	28/85	1/3	1/3	29/88	1/3	1/3	30/91	1/3	1/3	31/94	1/3	1/3	32/97	1/3	1/3	32/97	1/3	1/3	32/97	1/3
49	9/28	18/55	18/55	19/59	29/91	18/55	10/31	9/29	18/55	21/65	24/79	18/55	11/34	25/82	18/55	23/71	11/36	18/55	12/37	23/75	18/55	25/77	31/99	18/55	13/40	26/81	18/55	27/83	9/28	18/55	14/43	28/87	18/55	29/89	29/90	18/55	15/46	10/31	18/55	31/95	31/96	18/55	16/49	32/99	18/55	17/52	11/34	18/55	17/52	23/71
50	1/3	9/28	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3	1/3	17/53

Table. Lower bounds on $\overline{a}(S)$ for $S = \{1, 2, 5, 5+k, 5+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2/9	1/4	2/9	1/4	2/9	1/4	1/4	1/4	4/17	1/4	4/17	1/4	4/17	1/4	1/4	1/4	6/25	1/4	6/25	1/4	6/25	1/4	1/4	1/4	8/33	1/4	8/33	1/4	8/33	1/4	1/4	1/4	10/41	1/4	10/41	1/4	10/41	1/4	1/4	1/4	12/49	1/4	12/49	1/4	12/49	1/4	1/4	1/4	14/57	1/4
2	1/5	2/7	1/4	2/7	2/7	1/4	2/7	4/17	2/7	5/19	2/7	2/7	6/23	2/7	1/4	2/7	7/26	2/7	2/7	4/15	2/7	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59
3	1/5	1/4	3/14	1/4	1/4	1/4	2/9	1/4	4/19	1/4	5/22	1/4	1/4	1/4	3/13	1/4	2/9	1/4	7/30	1/4	1/4	1/4	4/17	1/4	8/35	1/4	9/38	1/4	1/4	1/4	5/21	1/4	10/43	1/4	11/46	1/4	1/4	1/4	6/25	1/4	4/17	1/4	13/54	1/4	1/4	1/4	7/29	1/4	14/59	1/4
4	1/4	2/7	2/7	1/4	2/7	4/17	2/7	5/19	2/7	2/7	6/23	2/7	1/4	2/7	7/26	2/7	2/7	4/15	2/7	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61
5	3/13	1/4	1/4	1/4	6/25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	8/33	1/4	1/4	1/4	12/49	1/4	1/4	1/4	1/4	1/4	1/4	1/4	13/53	1/4	1/4	1/4	18/73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	17/69	1/4	1/4	1/4	24/97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	22/89	1/4
6	2/7	1/4	2/7	8/33	2/7	1/4	2/7	2/7	6/23	2/7	12/47	2/7	7/27	2/7	2/7	4/15	2/7	16/61	2/7	9/34	2/7	2/7	10/37	2/7	4/15	2/7	11/41	2/7	2/7	3/11	2/7	24/89	2/7	13/48	2/7	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7
7	4/15	2/7	4/15	2/7	4/15	2/7	2/7	3/11	2/7	3/11	2/7	3/11	2/7	2/7	8/29	2/7	8/29	2/7	8/29	2/7	2/7	5/18	2/7	5/18	2/7	5/18	2/7	2/7	12/43	2/7	12/43	2/7	12/43	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32
8	1/4	4/15	1/4	4/15	1/4	4/15	4/15	6/23	1/4	6/23	1/4	6/23	1/4	4/15	4/15	8/31	4/15	8/31	4/15	8/31	4/15	4/15	5/19	10/39	5/19	10/39	5/19	10/39	5/19	10/39	4/15	4/15	6/23	4/15	6/23	4/15	6/23	4/15	4/15	14/53	7/27	14/53	7/27	14/53	7/27	4/15	4/15	16/61	4/15	16/61
9	4/17	2/7	5/19	2/7	2/7	6/23	2/7	1/4	2/7	7/26	2/7	2/7	4/15	2/7	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11
10	2/9	4/15	10/41	4/15	4/15	1/4	8/33	8/33	1/4	1/4	4/15	4/15	1/4	4/15	8/33	4/15	18/71	4/15	4/15	12/47	12/47	1/4	12/49	11/43	11/43	4/15	4/15	4/15	12/47	4/15	1/4	4/15	17/66	4/15	4/15	8/31	8/31	14/55	1/4	15/58	15/58	4/15	4/15	8/31	4/15	16/63	4/15	20/77	4/15	4/15
11	5/19	2/7	2/7	6/23	2/7	1/4	2/7	7/26	2/7	2/7	4/15	2/7	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68
12	1/4	4/15	4/15	5/19	10/39	5/19	9/34	7/27	5/19	4/15	4/15	6/23	4/15	9/34	4/15	5/19	4/15	4/15	9/34	7/27	9/34	13/49	5/19	20/77	4/15	4/15	16/61	4/15	13/49	4/15	11/42	4/15	4/15	13/49	5/19	13/49	17/64	14/53	25/96	4/15	4/15	5/19	4/15	17/64	4/15	26/99	4/15	4/15	17/64	16/61
13	2/7	6/23	2/7	12/47	2/7	7/27	2/7	2/7	4/15	2/7	16/61	2/7	9/34	2/7	2/7	10/37	2/7	4/15	2/7	11/41	2/7	2/7	3/11	2/7	24/89	2/7	13/48	2/7	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7
14	3/11	2/7	3/11	2/7	3/11	2/7	2/7	8/29	2/7	8/29	2/7	8/29	2/7	2/7	5/18	2/7	5/18	2/7	5/18	2/7	2/7	12/43	2/7	12/43	2/7	12/43	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71
15	6/23	3/11	6/23	3/11	6/23	3/11	3/11	4/15	7/27	4/15	8/31	4/15	15/58	3/11	10/37	5/19	10/37	5/19	10/37	5/19	3/11	3/11	4/15	3/11	4/15	3/11	4/15	3/11	3/11	7/26	14/53	7/26	14/53	7/26	14/53	3/11	16/59	4/15	16/59	4/15	16/59	4/15	3/11	3/11	18/67	3/11	18/67	3/11	18/67	3/11
16	1/4	2/7	7/26	2/7	2/7	4/15	2/7	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73
17	6/25	3/11	21/82	3/11	3/11	9/35	6/23	1/4	12/47	11/42	1/4	3/11	14/55	6/23	7/27	12/47	16/61	11/42	3/11	3/11	6/23	3/11	12/47	3/11	24/91	3/11	3/11	5/19	9/34	7/27	9/35	17/64	13/51	3/11	20/77	9/34	5/19	8/31	17/64	17/64	3/11	3/11	9/34	3/11	6/23	3/11	17/64	3/11	3/11	21/79
18	7/26	2/7	2/7	4/15	2/7	1/4	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25
19	7/27	3/11	3/11	7/26	14/53	7/26	13/48	9/34	7/26	3/11	7/26	4/15	17/66	13/48	11/41	7/26	3/11	3/11	18/67	3/11	13/48	3/11	7/26	3/11	3/11	13/48	4/15	13/48	19/70	7/26	4/15	3/11	10/37	11/41	7/26	19/70	17/63	15/56	3/11	3/11	17/63	3/11	19/70	3/11	25/93	3/11	3/11	19/70	7/26	19/70
20	2/7	4/15	2/7	16/61	2/7	9/34	2/7	2/7	10/37	2/7	4/15	2/7	11/41	2/7	2/7	3/11	2/7	24/89	2/7	13/48	2/7	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7	5/18	2/7	8/29	2/7	21/76	2/7	2/7
21	8/29	2/7	8/29	2/7	8/29	2/7	2/7	5/18	2/7	5/18	2/7	5/18	2/7	2/7	12/43	2/7	12/43	2/7	12/43	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71	2/7	20/71	2/7	20/71	2/7	2/7	11/39
22	4/15	8/29	4/15	8/29	4/15	8/29	8/29	10/37	9/34	10/37	5/19	10/37	19/72	8/29	3/11	4/15	3/11	4/15	3/11	4/15	8/29	14/51	7/26	14/51	7/26	14/51	7/26	8/29	8/29	16/59	8/29	16/59	8/29	16/59	8/29	8/29	3/11	18/67	3/11	18/67	3/11	18/67	8/29	20/73	10/37	20/73	10/37	20/73	10/37	8/29
23	8/31	2/7	3/11	2/7	2/7	10/37	2/7	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40
24	1/4	8/29	26/99	8/29	8/29	16/61	4/15	10/39	16/61	22/83	22/85	8/29	6/23	4/15	16/61	16/61	15/56	7/27	8/29	5/19	4/15	4/15	16/61	11/41	15/56	8/29	8/29	4/15	8/29	16/61	8/29	15/56	8/29	8/29	4/15	24/89	9/34	24/91	24/89	17/65	8/29	13/49	24/89	4/15	24/91	23/85	5/19	8/29	4/15	24/89
25	3/11	2/7	2/7	10/37	2/7	10/39	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82
26	9/34	8/29	8/29	3/11	18/67	3/11	17/62	11/41	3/11	8/29	3/11	10/37	21/80	17/62	13/48	3/11	8/29	3/11	22/81	9/34	17/62	3/11	3/11	8/29	8/29	3/11	8/29	17/62	8/29	3/11	8/29	8/29	17/62	13/48	17/62	25/91	3/11	23/85	8/29	26/95	25/92	3/11	25/91	3/11	19/70	8/29	26/95	3/11	3/11	25/91
27	2/7	10/37	2/7	4/15	2/7	11/41	2/7	2/7	3/11	2/7	24/89	2/7	13/48	2/7	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7	5/18	2/7	8/29	2/7	21/76	2/7	2/7	22/79	2/7	13/47	2/7	23/83	2/7	2/7
28	5/18	2/7	5/18	2/7	5/18	2/7	2/7	12/43	2/7	12/43	2/7	12/43	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71	2/7	20/71	2/7	20/71	2/7	2/7	11/39	2/7	11/39	2/7	11/39	2/7	2/7	24/85
29	10/37	5/18	10/37	5/18	10/37	5/18	5/18	3/11	11/41	3/11	4/15	3/11	23/86	5/18	14/51	24/89	14/51	7/26	14/51	7/26	5/18	8/29	16/59	8/29	16/59	8/29	16/59	5/18	18/65	3/11	18/65	3/11	18/65	3/11	5/18	5/18	20/73	5/18	20/73	5/18	20/73	5/18	5/18	11/40	22/81	11/40	22/81	11/40	22/81	5/18
30	5/19	2/7	11/40	2/7	2/7	3/11	2/7	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82	2/7	2/7	12/43	2/7	8/29
31	10/39	5/18	4/15	5/18	5/18	5/19	10/37	6/23	4/15	7/26	5/19	5/18	22/83	10/37	9/34	4/15	19/70	14/53	5/18	4/15	10/37	11/41	4/15	19/70	9/34	5/18	26/97	10/37	13/48	4/15	25/92	19/70	5/18	5/18	10/37	5/18	4/15	5/18	19/70	5/18	5/18	10/37	3/11	11/41	15/56	3/11	21/79	5/18	25/93	3/11
32	11/40	2/7	2/7	3/11	2/7	6/23	2/7	13/47	2/7	2/7	14/51	2/7	14/53	2/7	5/18	2/7	2/7	8/29	2/7	10/37	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82	2/7	2/7	12/43	2/7	8/29	2/7	25/89
33	11/41	5/18	5/18	11/40	22/81	11/40	21/76	13/48	11/40	5/18	11/40	3/11	25/94	21/76	3/11	11/40	5/18	11/40	26/95	23/86	21/76	17/62	11/40	5/18	11/40	14/51	7/26	21/76	27/98	11/40	5/18	5/18	19/69	5/18	21/76	5/18	11/40	5/18	5/18	21/76	26/95	21/76	18/65	11/40	26/95	5/18	8/29	17/62	11/40	18/65
34	2/7	3/11	2/7	24/89	2/7	13/48	2/7	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7	5/18	2/7	8/29	2/7	21/76	2/7	2/7	22/79	2/7	13/47	2/7	23/83	2/7	2/7	12/43	2/7	5/18	2/7	5/18	2/7	2/7
35	12/43	2/7	12/43	2/7	12/43	2/7	2/7	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71	2/7	20/71	2/7	20/71	2/7	2/7	11/39	2/7	11/39	2/7	11/39	2/7	2/7	24/85	2/7	24/85	2/7	24/85	2/7	2/7	13/46
36	3/11	12/43	3/11	12/43	3/11	12/43	12/43	14/51	13/48	14/51	11/41	14/51	17/63	12/43	8/29	25/92	8/29	16/59	8/29	16/59	12/43	18/65	3/11	18/65	3/11	18/65	3/11	12/43	5/18	20/73	5/18	20/73	5/18	20/73	12/43	22/79	11/40	22/79	11/40	11/40	11/40	11/40	12/43	12/43	8/29	12/43	8/29	12/43	8/29	12/43
37	4/15	2/7	13/47	2/7	2/7	14/51	2/7	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82	2/7	2/7	12/43	2/7	8/29	2/7	25/89	2/7	2/7	26/93	2/7	13/47
38	6/23	12/43	24/89	12/43	12/43	4/15	3/11	14/53	24/89	16/59	4/15	12/43	26/97	3/11	4/15	24/89	25/92	19/71	12/43	7/26	3/11	24/89	24/89	23/84	19/71	12/43	10/37	3/11	25/92	24/89	23/84	11/41	12/43	16/59	3/11	26/95	24/89	17/62	23/84	12/43	12/43	3/11	12/43	24/89	12/43	23/84	12/43	12/43	4/15	25/91
39	13/47	2/7	2/7	14/51	2/7	14/53	2/7	5/18	2/7	2/7	8/29	2/7	4/15	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	3/11	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82	2/7	2/7	12/43	2/7	8/29	2/7	25/89	2/7	2/7	26/93	2/7	13/47	2/7	9/32
40	13/48	12/43	12/43	13/47	26/95	13/47	5/18	3/11	13/47	12/43	13/47	14/51	18/67	5/18	17/62	13/47	12/43	13/47	19/69	24/89	5/18	19/69	13/47	12/43	13/47	8/29	13/48	5/18	21/76	13/47	12/43	13/47	21/76	25/92	5/18	23/83	13/47	12/43	12/43	23/83	12/43	5/18	12/43	13/47	12/43	12/43	5/18	19/69	23/83	27/97
41	2/7	14/51	2/7	25/92	2/7	3/11	2/7	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7	5/18	2/7	8/29	2/7	21/76	2/7	2/7	22/79	2/7	13/47	2/7	23/83	2/7	2/7	12/43	2/7	5/18	2/7	5/18	2/7	2/7	26/93	2/7	26/95	2/7	27/97	2/7	2/7
42	7/25	2/7	7/25	2/7	7/25	2/7	2/7	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71	2/7	20/71	2/7	20/71	2/7	2/7	11/39	2/7	11/39	2/7	11/39	2/7	2/7	24/85	2/7	24/85	2/7	24/85	2/7	2/7	13/46	2/7	13/46	2/7	9/32	2/7	2/7	28/99
43	14/51	7/25	14/51	7/25	14/51	7/25	7/25	8/29	3/11	8/29	13/48	8/29	25/92	7/25	18/65	26/95	18/65	3/11	18/65	3/11	7/25	5/18	17/62	5/18	20/73	5/18	20/73	7/25	22/79	11/40	22/79	11/40	22/79	11/40	7/25	12/43	8/29	12/43	8/29	12/43	8/29	7/25	26/93	13/47	26/93	13/47	27/98	27/98	7/25	7/25
44	7/26	2/7	5/18	2/7	2/7	8/29	2/7	16/59	2/7	17/61	2/7	2/7	18/65	2/7	3/11	2/7	19/68	2/7	2/7	5/18	2/7	20/73	2/7	7/25	2/7	2/7	22/79	2/7	11/40	2/7	23/82	2/7	2/7	12/43	2/7	8/29	2/7	25/89	2/7	2/7	26/93	2/7	13/47	2/7	9/32	2/7	2/7	7/25	2/7	23/83
45	14/53	7/25	25/92	7/25	7/25	7/26	14/51	4/15	25/92	3/11	7/26	7/25	10/37	14/51	18/67	25/92	20/73	24/89	7/25	16/59	14/51	13/48	25/92	27/98	10/37	7/25	25/92	14/51	3/11	25/92	27/98	10/37	7/25	3/11	14/51	17/62	25/92	27/98	13/48	7/25	26/95	14/51	19/69	25/92	8/29	27/98	7/25	7/25	14/51	7/25
46	5/18	2/7	2/7	8/29	2/7	4/15	2/7	17/61	2/7	2/7	18/65	2/7	18/67	2/7	19/68	2/7	2/7	5/18	2/7	10/37	2/7	7/25	2/7	2/7	22/79	2/7	14/51	2/7	23/82	2/7	2/7	12/43	2/7	14/51	2/7	25/89	2/7	2/7	26/93	2/7	13/47	2/7	9/32	2/7	2/7	7/25	2/7	23/83	2/7	20/71
47	3/11	7/25	7/25	5/18	19/69	5/18	17/61	17/62	5/18	7/25	5/18	8/29	23/85	17/61	19/69	5/18	7/25	5/18	21/76	19/70	17/61	21/76	5/18	7/25	5/18	18/65	25/92	17/61	23/83	5/18	7/25	5/18	23/83	26/95	17/61	5/18	7/25	5/18	5/18	17/62	17/61	22/79	5/18	7/25	5/18	7/25	17/61	7/25		
48	2/7	8/29	2/7	26/95	2/7	17/62	2/7	2/7	18/65	2/7	25/91	2/7	19/69	2/7	2/7	5/18	2/7	8/29	2/7	21/76	2/7	2/7	22/79	2/7	13/47	2/7	23/83	2/7	2/7	12/43	2/7	5/18	2/7	5/18	2/7	2/7	26/93	2/7	27/97	2/7	27/97	2/7	2/7	7/25	2/7	14/51	2/7	17/61	2/7	2/7
49	16/57	2/7	16/57	2/7	16/57	2/7	2/7	9/32	2/7	9/32	2/7	9/32	2/7	2/7	20/71	2/7	20/71	2/7	20/71	2/7	2/7	11/39	2/7	11/39	2/7	11/39	2/7	2/7	24/85	2/7	24/85	2/7	25/89	2/7	2/7	13/46	2/7	13/46	2/7	13/46	2/7	2/7	28/99	2/7	28/99	2/7	20/71	2/7	2/7	15/53
50	8/29	16/57	8/29	16/57	8/29	16/57	16/57	18/65	17/62	18/65	3/11	18/65	26/95	16/57	5/18	25/91	5/18	3/11	5/18	20/73	16/57	22/79	19/69	22/79	11/40	22/79	25/91	16/57	12/43	8/29	12/43	8/29	12/43	8/29	16/57	26/93	13/47	26/93	13/47	23/83	13/47	16/57	7/25	23/83	7/25	23/83	18/65	21/76	16/57	23/82

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{1, 3, 4, 4+k, 4+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/4	3/11	1/4	3/11	1/4	3/11	1/4	3/11	1/4	3/11	3/11	6/23	3/11	6/23	3/11	6/23	3/11	6/23	3/11	6/23	3/11	3/11	9/34	3/11	9/34	3/11	9/34	3/11	9/34	3/11	9/34	3/11	3/11	4/15	3/11	4/15	3/11	4/15	3/11	4/15	3/11	4/15	3/11	3/11	15/56	3/11	15/56	3/11	15/56	3/11
2	4/15		5/17		6/19		1/3		8/23		9/25		10/27		11/29		12/31		13/33		2/5		15/37		16/39		17/41		18/43		19/45		20/47		3/7		22/51		23/53		24/55		25/57		26/59		27/61		4/9	
3	1/4	4/13	1/4	4/13	1/4	4/13	1/4	4/13	3/11	4/13	7/24	2/7	4/13	4/15	4/13	8/29	4/13	8/29	4/13	8/29	4/13	2/7	4/13	11/37	12/41	4/13	12/43	4/13	2/7	4/13	2/7	4/13	2/7	4/13	7/24	4/13	3/10	8/27	4/13	2/7	4/13	16/55	4/13	16/55	4/13	16/55	4/13	18/61	4/13	19/63
4	5/19		2/7		7/23		8/25		1/3		10/29		11/31		4/11		13/35		14/37		5/13		16/41		17/43		2/5		19/47		20/49		7/17		22/53		23/55		8/19		25/59		26/61		3/7		28/65		29/67	
5	1/4	1/3	1/4	1/3	1/4	1/3	3/11	1/3	7/24	1/3	4/13	5/16	9/28	5/17	1/3	5/18	1/3	3/11	1/3	2/7	1/3	11/37	1/3	4/13	1/3	13/41	15/47	14/43	15/49	1/3	5/17	1/3	7/24	1/3	3/10	1/3	4/13	1/3	17/54	1/3	9/28	10/31	19/58	5/16	1/3	10/33	1/3	19/63	1/3	4/13	
6	6/23		7/25		8/27		9/29		10/31		1/3		12/35		13/37		14/39		15/41		16/43		17/45		18/47		19/49		20/51		21/53		2/5		23/57		24/59		25/61		26/63		27/65		28/67		29/69		30/71	
7	1/4	6/17	1/4	6/17	3/11	6/17	7/24	6/17	4/13	6/17	9/28	1/3	1/3	6/19	11/32	3/10	6/17	2/7	6/17	11/37	6/17	4/13	6/17	13/41	6/17	14/43	6/17	1/3	18/53	16/47	18/55	17/49	6/19	6/17	4/13	6/17	17/54	6/17	9/28	6/17	19/58	6/17	1/3	6/17	21/62	12/35	11/32	1/3	23/66	12/37
8	7/27		8/29		9/31		10/33		11/35		12/37		1/3		14/41		15/43		16/45		17/47		18/49		19/51		20/53		21/55		22/57		23/59		24/61		25/63		2/5		27/67		28/69		29/71		30/73		31/75	
9	1/4	7/19	3/11	7/19	7/24	7/19	4/13	7/19	9/28	7/19	1/3	7/20	11/32	1/3	6/17	7/22	13/36	7/23	7/19	4/13	7/19	13/41	7/19	14/43	7/19	1/3	7/19	16/47	7/19	17/49	21/59	6/17	21/61	19/53	1/3	4/11	21/65	7/19	19/58	7/19	1/3	7/19	21/62	7/19	11/32	7/19	23/66	7/19	6/17	14/39	
10	8/31		3/11		2/7		11/37		4/13		13/41		14/43		1/3		16/47		17/49		6/17		19/53		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23		28/71		29/73		2/5		31/77		32/79	
11	3/11	8/21	7/24	8/21	4/13	8/21	9/28	8/21	1/3	8/21	11/32	4/11	6/17	8/23	13/36	1/3	7/19	8/25	3/8	13/41	8/21	14/43	8/21	1/3	8/21	16/47	8/21	17/49	8/21	6/17	8/21	19/53	24/65	4/11	24/67	7/19	8/23	22/59	24/71	23/61	21/62	8/21	11/32	8/21	23/66	8/21	6/17	8/21	5/14	8/21	
12	6/23		10/37		11/39		12/41		13/43		14/45		15/47		16/49		1/3		18/53		19/55		20/57		21/59		22/61		23/63		24/65		25/67		26/69		27/71		28/73		29/75		30/77		31/79		32/81		33/83	
13	10/37	9/23	4/13	9/23	9/28	9/23	1/3	9/23	11/32	9/23	6/17	3/8	13/36	9/25	7/19	9/26	3/8	1/3	8/21	14/43	17/44	1/3	9/23	16/47	9/23	17/49	9/23	6/17	9/23	19/53	9/23	4/11	9/23	7/19	27/71	22/59	27/73	23/61	9/25	8/21	27/77	5/13	23/66	26/67	6/17	9/23	5/14	9/23	13/36	9/23	
14	20/77		7/26		12/43		14/45		14/47		15/49		16/51		17/53		18/55		1/3		20/59		21/61		22/63		23/65		24/67		25/69		26/71		27/73		28/75		29/77		30/79		31/81		32/83		33/85		34/87	
15	11/41	2/5	13/43	2/5	1/3	2/5	11/32	2/5	6/17	2/5	13/36	5/13	7/19	10/27	3/8	5/14	8/21	10/29	17/44	1/3	9/23	16/47	19/48	17/49	2/5	6/17	2/5	19/53	2/5	4/11	2/5	7/19	2/5	22/59	2/5	23/61	30/77	8/21	30/79	5/13	10/27	26/67	30/83	9/23	5/14	28/71	13/36	29/73	27/74	2/5	
16	22/85		8/29		13/47		15/49		16/51		16/53		17/55		6/19		19/59		20/61		1/3		22/65		23/67		8/23		25/71		26/73		9/25		4/11		29/79		10/27		31/83		32/85		11/29		34/89		5/13	
17	4/15	11/27	14/47	11/27	16/49	11/27	6/17	11/27	13/36	11/27	7/19	11/28	3/8	11/29	8/21	11/30	17/44	11/31	9/23	11/32	19/48	1/3	2/5	6/17	21/52	19/53	11/27	4/11	11/27	7/19	11/27	22/59	11/27	23/61	11/27	8/21	11/27	5/13	33/83	26/67	33/85	9/23	11/29	28/71	33/89	29/73	27/74	2/5	7/19	31/77	
18	8/31		26/95		9/32		16/53		18/55		6/19		13/41		9/28		9/28		21/65		22/67		1/3		24/71		25/73		26/75		27/77		28/79		29/81		30/83		31/85		32/87		33/89		34/91		35/93		36/95	
19	13/49	12/29	5/17	12/29	17/53	12/29	19/55	12/29	7/19	12/29	3/8	2/5	8/21	12/31	17/44	3/8	9/23	4/11	19/48	6/17	2/5	12/35	21/52	1/3	11/27	13/37	23/56	7/19	12/29	22/59	12/29	23/61	12/29	8/21	12/29	5/13	12/29	26/67	12/29	9/23	36/89	28/71	36/91	29/73	12/31	2/5	36/95	31/77	29/78	32/79	
20	8/31		3/11		2/7		3/10		19/59		20/61		14/43		1/3		1/3		1/3		1/3		1/3		1/3		26/77		27/79		28/81		29/83		6/17		31/87		32/89		33/91		34/93		7/19		7/19		36/97	
21	14/53	13/31	16/55	13/31	6/19	13/31	20/59	13/31	22/61	13/31	8/21	13/32	17/44	13/33	9/23	13/34	19/48	13/35	2/5	13/36	21/52	13/37	11/27	13/38	23/56	1/3	12/29	7/20	5/12	15/41	13/31	8/21	13/31	5/13	13/31	26/67	13/31	9/23	13/31	28/71	13/31	29/73	39/95	2/5	39/97	31/77	13/33	32/79	22/57	11/27	
22	3/11		2/7		11/37		4/13		20/63		22/65		1/3		16/47		11/32		11/32		11/32		11/32		1/3		28/83		29/85		10/29		31/89		32/91		11/31		34/95		34/95		35/97		4/11		4/11	
23	9/34	14/33	17/59	14/33	19/61	14/33	1/3	14/33	23/65	14/33	25/67	7/17	9/23	2/5	19/48	7/18	2/5	14/37	21/52	7/19	11/27	14/39	23/56	7/20	12/29	14/41	5/12	1/3	13/31	15/43	27/64	4/11	14/33	17/45	14/33	9/23	14/33	28/71	14/33	29/73	14/33	2/5	14/33	31/77	37/89	32/79	31/76	11/27	2/5	34/83	
24	16/59		11/37		4/13		13/41		14/43		1/3		16/47		17/49		6/17		6/17		6/17		6/17		6/17		6/17		1/3		30/89		30/89		31/91		32/93		33/95		4/11		35/99		35/99		31/87		35/99	
25	16/61	3/7	2/7	3/7	4/13	3/7	22/67	3/7	8/23	3/7	26/71	5/12	28/73	15/37	2/5	15/38	21/52	5/13	11/27	3/8	23/56	15/41	12/29	5/14	5/12	15/43	13/31	15/44	27/64	1/3	14/33	8/23	29/68	17/47	3/7	3/8	3/7	19/49	3/7	2/5	3/7	31/77	3/7	32/79	3/7	11/27	37/88	34/83	26/63	7/17	
26	17/63		4/13		13/41		14/43		1/3		16/47		17/49		6/17		19/53		13/36		13/36		13/36		13/36		13/36		32/91		30/91		1/3		1/3		32/95		26/75		26/75		29/83		29/83		29/83		6/17	
27	17/65	16/37	19/67	16/37	7/23	16/37	23/71	16/37	25/73	16/37	9/25	8/19	29/77	16/39	31/79	2/5	11/27	16/41	23/56	8/21	12/29	16/43	5/12	4/11	13/31	16/45	27/64	8/23	14/33	16/47	29/68	23/71	3/7	17/49	31/72	9/25	16/37	19/51	16/37	5/13	16/37	21/53	16/37	11/27	16/37	34/83	16/37	7/17	31/73	12/29	
28	18/67		7/23		14/43		1/3		16/47		17/49		6/17		19/53		4/11		7/19		7/19		7/19		7/19		7/19		7/19		34/97		31/95		32/97		1/3		26/77		27/79		28/81		29/83		6/17		31/87	
29	6/23	17/39	2/7	17/39	22/73	17/39	8/25	17/39	26/77	17/39	28/79	17/40	10/27	17/41	32/83	17/42	2/5	17/43	12/29	17/44	5/12	17/45	13/31	17/46	27/64	17/47	14/33	17/48	29/68	1/3	3/7	16/49	31/72	25/77	16/37	26/77	33/76	19/53	17/39	10/27	17/39	21/55	17/39	11/28	17/39	23/57	17/39	12/29	17/39	37/89	
30	19/71		22/73		1/3		16/47		17/49		6/17		19/53		4/11		7/19		22/59		3/8		3/8		3/8		3/8		3/8		30/89		26/71		14/41		1/3		26/77		27/79		28/81		29/83		1/99		31/87		32/89	
31	11/42	18/41	7/25	18/41	23/77	18/41	26/79	18/41	1/3	18/41	29/83	3/7	31/85	18/43	11/29	9/22	35/89	2/5	37/91	9/23	13/31	18/47	27/64	3/8	14/33	18/49	29/68	9/25	3/7	17/50	31/72	8/25	16/37	13/41	33/76	1/3	17/39	28/83	7/16	29/83	18/41	31/85	18/41	11/29	18/41	34/89	18/41	2/5	18/43	25/61	
32	4/15		23/77		26/79		17/49		6/17		19/53		4/11		7/19		22/59		23/61		8/21		8/21		8/21		8/21		8/21		8/21		35/96		15/44		1/99		1/99		1/99		1/99		1/99		1/99		1/99		
33	3/11	19/43	13/46	19/43	8/27	19/43	27/83	19/43	28/85	19/43	10/29	19/44	32/89	19/45	34/91	19/46	12/31	19/47	2/5	19/48	40/97	19/49	14/33	19/50	29/68	19/51	3/7	6/17	31/72	9/26	16/37	17/52	33/76	14/43	17/39	14/43	7/16	1/99	18/41	10/29	37/84	31/89	19/43	32/89	19/43	34/91	19/43	12/31	19/44	37/95	
34	4/15		8/27		27/83		6/17		19/53		4/11		7/19		22/59		23/61		8/21		5/13		17/44		17/44		17/44		17/44		17/44		14/37		16/45		8/23		1/99		1/99		1/99		1/99		1/99		1/99		
35	22/81	4/9	7/24	4/9	3/10	4/9	28/87	4/9	30/89	4/9	31/91	10/23	11/31	20/47	7/19	5/12	37/97	20/49	13/33	2/5	28/69	20/51	38/91	5/13	3/7	20/53	31/72	19/53	16/37	18/53	33/76	1/3	17/39	1/3	7/16	1/3	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	4/9	7/19	4/9	37/97	
36	22/83		5/17		28/87		31/89		4/11		7/19		22/59		23/61		8/21		5/13		26/67		9/23		9/23		9/23		9/23		9/23		9/23		35/94		17/48		1/99		1/99		1/99		1/99		1/99		1/99		
37	23/85	21/47	3/10	21/47	4/13	21/47	29/91	21/47	32/93	21/47	32/95	7/16	34/97	3/7	4/11	21/50	35/93	7/17	33/85	21/52	2/5	21/53	37/90	7/18	27/64	10/27	16/37	4/11	33/76	19/55	17/39	16/47	7/16	16/47	18/41	1/99	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	21/47	1/99	
38	23/87		26/89		29/91		32/93		7/19		22/59		23/61		8/21		5/13		26/67		9/23		28/71		19/48		19/48		19/48		19/48		19/48		37/98		18/49		1/99		1/99		1/99		1/99		1/99		1/99		
39	24/89	22/49	4/13	22/49	17/54	22/49	9/28	22/49	33/97	22/49	34/99	11/25	26/75	22/51	23/64	11/26	13/35	22/53	23/60	11/27	28/71	6/17	15/37	10/27	37/89	19/54	26/61	5/14	17/39	20/57	7/16	28/81	18/41	17/49	37/84	1/99	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	
40	24/91		9/31		6/19		33/97		4/11		23/61		8/21		5/13		26/67		9/23		28/71		29/73		2/5		2/5		2/5		2/5		2/5		2/5		13/34		1/99		1/99		1/99		1/99		1/99		1/99		
41	25/93	23/51	29/95	23/51	9/28	23/51	19/58	23/51	33/98	23/51	29/83	23/52	11/32	23/53	23/66	23/54	13/36	23/55	14/37	7/18	37/95	23/57	15/38	19/54	16/39	5/14	33/80	20/57	40/93	28/81	18/41	29/83	37/84	6/17	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	
42	14/53		16/55		31/99		33/98		23/64		8/21		5/13		26/67		9/23		28/71		29/73		2/5		31/77		21/52		21/52		21/52		21/52		21/52		29/75		28/87		1/99		1/99		1/99		1/99		
43	26/97	24/53	10/33	24/53	19/58	24/53	1/3	24/53	21/62	24/53	27/76	4/9	23/66	24/55	6/17	3/7	5/14	8/19	7/19	12/29	5/13	4/11	31/80	26/77	32/79	27/79	17/41	28/81	5/12	29/83	3/7	6/17	19/43	1/99	39/88	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	
44	3/11		16/57		23/74		1/3		27/76		35/93		26/67		9/23		28/71		29/73		2/5		31/77		32/79		11/27		11/27		11/27		11/27		11/27		11/27		30/89		1/99		1/99		1/99		1/99		1/99		
45	15/56	5/11	28/93	5/11	1/3	5/11	21/62	5/11	11/32	5/11	13/37	25/56	23/65	25/57	5/14	25/58	13/36	25/59	4/11	3/8	3/8	7/19	16/41	27/79	11/28	28/81	17/42	29/83	18/43	6/17	37/88	1/99	19/44	1/99	4/9	1/99	41/92	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	
46	25/92		17/59		13/43		21/65		13/37		29/78		9/23		28/71		29/73		2/5		31/77		32/79		11/27		34/83		23/56		23/56		23/56		23/56		23/56		32/93		32/93		1/99		1/99		1/99		1/99	
47	4/15	26/57	27/92	26/57	10/31	41/90	11/32	26/57	23/66	23/54	6/17	23/55	14/39	23/56	13/36	23/57	27/74	22/57	7/19	5/14	31/84	26/75	8/21	28/81	17/43	29/83	35/88	6/17	9/22	31/87	19/45	1/99	39/92	1/99	10/23	1/99	21/47	1/99	43/96	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	
48	16/59		18/61		19/63		29/90		8/23		25/68		29/75		29/73		2/5		31/77		32/79		11/27		34/83		7/17		12/29		12/29		12/29		12/29		12/29		11/31		33/97		1/99		1/99		1/99		1/99	
49	22/85	27/59	23/79	27/59	26/81	37/81	23/66	25/56	6/17	23/55	5/14	23/56	13/36	11/28	27/74	22/57	7/19	27/73	29/78	9/25	16/43	27/77	3/8	29/83	17/44	6/17	2/5	31/87	37/92	32/89	19/46	1/99	20/47	1/99	41/96	1/99	7/16	1/99	22/49	1/99	9/20	1/99	23/51	1/99	33/73	1/99	24/53	1/99	44/97	1/99	
50	10/37		19/63		4/13		15/47		24/71		26/73		37/98		2/5		31/77		32/79		11/27		34/83		7/17		12/29		37/89		37/89		5/12		27/65		5/12		7/19		34/97		34/99		1/99		1/99		1/99	

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{1, 3, 5, 5+k, 5+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/5	2/9	1/5	2/9	4/19	2/9	2/9	2/9	2/9	4/19	2/9	4/19	2/9	3/14	2/9	2/9	2/9	2/9	3/14	2/9	3/14	2/9	8/37	2/9	2/9	2/9	2/9	8/37	2/9	8/37	2/9	5/23	2/9	2/9	2/9	2/9	5/23	2/9	5/23	2/9	12/55	2/9	2/9	2/9	2/9	12/55	2/9	12/55	2/9	7/32
2	1/3	1/4	1/3	1/3	1/4	1/3	1/3	1/4	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62
3	3/13	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3
4	3/14	1/4	1/4	1/4	3/13	1/4	3/14	1/4	3/13	1/4	1/4	1/4	3/13	1/4	3/13	1/4	7/30	1/4	1/4	1/4	4/17	1/4	2/9	1/4	9/38	1/4	1/4	1/4	5/21	1/4	3/13	1/4	11/46	1/4	1/4	1/4	6/25	1/4	3/13	1/4	13/54	1/4	1/4	1/4	7/29	1/4	7/30	1/4	15/62	1/4
5	1/3	4/17	1/3	1/3	1/4	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13
6	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3
7	1/4	1/4	1/4	4/17	1/4	1/4	1/4	1/4	1/4	6/25	1/4	1/4	1/4	8/33	1/4	1/4	1/4	1/4	1/4	8/33	1/4	1/4	1/4	1/4	1/4	10/41	1/4	1/4	1/4	12/49	1/4	1/4	1/4	1/4	1/4	12/49	1/4	1/4	1/4	1/4	1/4	14/57	1/4	1/4	1/4	16/65	1/4	1/4	1/4	1/4
8	1/3	1/4	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68
9	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3
10	1/4	5/19	5/19	1/4	5/19	5/19	1/4	5/19	5/19	1/4	17/69	5/19	1/4	1/4	5/19	9/35	1/4	5/19	5/19	10/39	5/19	5/19	10/39	5/19	5/19	10/39	5/19	5/19	10/39	1/4	5/19	23/90	1/4	5/19	7/27	14/55	5/19	5/19	15/58	5/19	5/19	15/58	5/19	5/19	15/58	5/19	5/19	15/58	15/59	5/19
11	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71
12	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3
13	6/23	3/11	3/11	6/23	3/11	3/11	6/23	3/11	3/11	6/23	10/39	3/11	15/58	8/31	3/11	5/19	8/31	3/11	11/41	11/42	3/11	3/11	4/15	3/11	3/11	4/15	3/11	3/11	4/15	3/11	3/11	4/15	6/23	3/11	9/34	7/27	3/11	4/15	16/61	3/11	17/63	17/64	3/11	3/11	18/67	3/11	3/11	18/67	3/11	3/11
14	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74
15	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3
16	7/26	7/25	7/25	7/26	7/25	7/25	7/26	7/25	7/25	7/26	23/87	7/25	17/64	9/34	7/25	18/67	9/34	7/25	3/11	19/71	7/25	13/47	13/48	7/25	7/25	14/51	7/25	7/25	14/51	7/25	7/25	14/51	7/25	7/25	14/51	7/26	7/25	25/92	4/15	7/25	26/95	25/93	7/25	19/69	19/70	7/25	5/18	20/73	7/25	7/25
17	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77
18	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3
19	8/29	2/7	2/7	8/29	2/7	2/7	8/29	2/7	2/7	8/29	16/59	2/7	19/70	10/37	2/7	20/73	10/37	2/7	13/47	3/11	2/7	7/25	11/40	2/7	15/53	5/18	2/7	2/7	16/57	2/7	2/7	16/57	2/7	2/7	16/57	2/7	2/7	16/57	8/29	2/7	5/18	3/11	2/7	12/43	14/51	2/7	23/82	21/76	2/7	11/39
20	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16
21	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3
22	9/32	9/31	9/31	9/32	9/31	9/31	9/32	9/31	9/31	9/32	18/65	9/31	21/76	11/40	9/31	22/79	11/40	9/31	23/82	23/83	9/31	15/53	12/43	9/31	2/7	25/89	9/31	17/59	17/60	9/31	9/31	2/7	9/31	9/31	2/7	9/31	9/31	2/7	9/32	9/31	21/74	19/68	9/31	27/95	13/46	5/18	9/31	21/74	19/68	9/31	27/95
23	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83
24	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3
25	2/7	5/17	5/17	2/7	5/17	5/17	2/7	5/17	5/17	2/7	20/71	5/17	23/82	12/43	5/17	24/85	12/43	5/17	25/88	25/89	5/17	2/7	13/46	5/17	17/59	27/95	5/17	9/31	2/7	5/17	19/65	19/66	5/17	5/17	20/69	5/17	5/17	20/69	5/17	5/17	20/69	5/17	5/17	20/69	2/7	5/17	27/94	11/39	5/17	23/80
26	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86
27	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3
28	11/38	11/37	11/37	11/38	11/37	11/37	11/38	11/37	11/37	11/38	2/7	11/37	25/88	13/46	11/37	2/7	13/46	11/37	27/94	27/95	11/37	28/97	2/7	11/37	9/31	27/94	11/37	19/65	15/52	11/37	5/17	20/69	11/37	21/71	7/24	11/37	11/37	22/75	11/37	11/37	22/75	11/37	11/37	22/75	11/37	11/37	22/75	11/38	11/37	9/31
29	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89
30	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3
31	12/41	3/10	3/10	12/41	3/10	3/10	12/41	3/10	3/10	12/41	24/83	3/10	27/94	2/7	3/10	28/97	2/7	3/10	20/69	27/94	3/10	23/79	15/52	3/10	19/65	20/69	3/10	5/17	16/55	3/10	21/71	26/89	3/10	11/37	22/75	3/10	23/77	23/78	3/10	3/10	8/27	3/10	3/10	8/27	3/10	3/10	18/61	3/10	3/10	8/27
32	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92
33	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3
34	13/44	13/43	13/43	13/44	13/43	13/43	13/44	13/43	13/43	13/44	26/89	13/43	20/69	15/52	13/43	23/79	15/52	13/43	19/65	20/69	13/43	27/92	16/55	13/43	28/95	26/89	13/43	21/71	17/58	13/43	11/37	5/17	13/43	23/77	18/61	13/43	3/10	8/27	13/43	25/83	25/84	13/43	13/43	26/87	13/43	13/43	26/87	13/43	13/43	25/84
35	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19
36	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3
37	14/47	7/23	7/23	14/47	7/23	7/23	14/47	7/23	7/23	14/47	28/95	7/23	19/65	16/55	7/23	27/92	16/55	7/23	28/95	26/89	7/23	21/71	17/58	7/23	27/91	5/17	7/23	25/84	18/61	7/23	23/77	29/98	7/23	3/10	19/64	7/23	25/83	25/84	7/23	13/43	26/87	7/23	27/89	3/10	7/23	7/23	28/93	7/23	7/23	28/93
38	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98
39	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3
40	3/10	15/49	15/49	3/10	15/49	15/49	3/10	15/49	15/49	3/10	19/64	15/49	28/95	17/58	15/49	21/71	17/58	15/49	27/91	5/17	15/49	25/84	18/61	15/49	20/67	29/98	15/49	29/97	19/64	15/49	3/10	25/84	15/49	25/83	20/67	15/49	13/43	29/97	15/49	27/89	3/10	15/49	7/23	28/93	15/49	29/95	29/96	15/49	15/49	10/33
41	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60
42	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3
43	16/53	4/13	4/13	16/53	4/13	4/13	16/53	4/13	4/13	16/53	29/97	4/13	27/91	18/61	4/13	25/84	18/61	4/13	20/67	29/98	4/13	29/97	19/64	4/13	3/10	25/84	4/13	28/93	20/67	4/13	22/73	29/97	4/13	13/43	3/10	4/13	27/89	3/10	4/13	7/23	28/93	4/13	29/95	29/96	4/13	15/49	10/33	4/13	27/88	24/79
44	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63
45	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3
46	17/56	17/55	17/55	17/56	17/55	17/55	17/56	17/55	17/55	17/56	28/93	17/55	20/67	18/61	17/55	29/97	19/64	17/55	3/10	25/84	17/55	28/93	20/67	17/55	22/73	29/97	17/55	29/96	3/10	17/55	23/76	28/93	17/55	27/89	22/73	17/55	7/23	28/93	17/55	29/95	29/96	17/55	15/49	10/33	17/55	27/88	24/79	17/55	4/13	25/82
47	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63	1/3	1/3	27/85
48	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3	1/3	17/53	1/3
49	18/59	9/29	9/29	18/59	9/29	9/29	7/23	9/29	9/29	18/59	17/58	9/29	3/10	29/98	9/29	28/93	25/84	9/29	3/10	29/97	9/29	29/96	3/10	9/29	23/76	28/93	9/29	27/89	3/10	9/29	27/89	29/96	9/29	25/82	23/76	9/29	29/95	27/89	9/29	15/49	10/33	9/29	27/88	24/79	9/29	4/13	25/82	9/29	29/94	11/36
50	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63	1/3	1/3	27/85	1/3	1/3	7/22

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{1, 4, 5, 5+k, 5+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/4	2/9	3/13	2/7	2/7	2/7	2/7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	7/27	2/7	2/7	2/7	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57
2	2/9	1/5	1/5	1/4	1/4	1/4	1/4	1/4	4/17	2/9	5/23	1/4	1/4	1/4	1/4	1/4	6/25	3/13	7/31	1/4	1/4	1/4	1/4	1/4	8/33	4/17	3/13	1/4	1/4	1/4	1/4	1/4	10/41	5/21	11/47	1/4	1/4	1/4	1/4	1/4	12/49	6/25	13/55	1/4	1/4	1/4	1/4	1/4	1/4	14/57	7/29
3	3/11	3/11	4/17	2/9	1/4	3/11	3/11	3/11	1/4	1/4	3/11	3/11	3/11	1/4	1/4	7/27	3/11	3/11	3/11	8/31	8/31	3/11	3/11	3/11	10/39	8/31	5/19	3/11	3/11	3/11	11/42	11/42	3/11	3/11	3/11	13/50	11/42	13/49	3/11	3/11	3/11	14/53	14/53	3/11	3/11	3/11	16/61	14/53	4/15	3/11
4	1/3	1/3	5/19	1/4	5/17	1/3	1/3	1/3	7/25	3/11	7/23	1/3	1/3	1/3	9/31	2/7	9/29	1/3	1/3	1/3	11/37	5/17	11/35	1/3	1/3	1/3	13/43	3/10	13/41	1/3	1/3	1/3	15/49	7/23	15/47	1/3	1/3	1/3	17/55	4/13	17/53	1/3	1/3	1/3	19/61	9/29	19/59	1/3	1/3	1/3
5	1/3	4/13	2/7	5/17	1/3	1/3	1/3	6/19	3/10	7/23	1/3	1/3	1/3	8/25	4/13	9/29	1/3	1/3	1/3	10/31	5/16	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61
6	4/13	2/7	4/15	1/3	1/3	1/3	6/19	3/10	2/7	1/3	1/3	1/3	8/25	4/13	8/27	1/3	1/3	1/3	10/31	5/16	10/33	1/3	1/3	1/3	12/37	6/19	4/13	1/3	1/3	1/3	14/43	7/22	14/45	1/3	1/3	1/3	16/49	8/25	16/51	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31
7	2/7	4/15	1/4	4/13	4/13	4/13	3/10	2/7	3/11	9/32	4/13	4/13	4/13	8/27	2/7	8/29	4/13	4/13	4/13	10/33	5/17	2/7	13/45	4/13	4/13	4/13	3/10	12/41	2/7	4/13	4/13	4/13	7/23	14/47	7/24	17/58	4/13	4/13	4/13	16/53	8/27	16/55	4/13	4/13	4/13	18/59	3/10	18/61	21/71	4/13
8	4/15	1/4	4/17	2/7	2/7	2/7	2/7	3/11	6/23	1/4	2/7	2/7	2/7	2/7	8/29	4/15	8/31	2/7	2/7	2/7	2/7	5/18	10/37	5/19	2/7	2/7	2/7	2/7	12/43	3/11	4/15	2/7	2/7	2/7	2/7	7/25	14/51	7/26	2/7	2/7	2/7	2/7	16/57	8/29	16/59	2/7	2/7	2/7	2/7	9/32
9	5/17	5/17	1/4	4/15	3/11	5/17	5/17	5/17	7/26	7/26	2/7	5/17	5/17	11/40	9/32	9/32	5/17	5/17	5/17	10/37	9/32	11/39	5/17	5/17	5/17	12/43	12/43	13/45	5/17	5/17	16/57	2/7	2/7	5/17	5/17	5/17	5/18	2/7	2/7	5/17	5/17	5/17	17/60	17/60	9/31	5/17	5/17	21/74	19/66	19/66
10	1/3	1/3	8/31	3/11	7/23	1/3	1/3	1/3	10/37	2/7	9/29	1/3	1/3	1/3	12/43	5/17	11/35	1/3	1/3	1/3	2/7	3/10	13/41	1/3	1/3	1/3	16/55	7/23	15/47	1/3	1/3	1/3	18/61	4/13	17/53	1/3	1/3	1/3	20/67	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3
11	1/3	6/19	3/11	7/23	1/3	1/3	1/3	8/25	4/13	9/29	1/3	1/3	1/3	10/31	5/16	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67
12	6/19	3/10	2/7	1/3	1/3	1/3	8/25	4/13	8/27	1/3	1/3	1/3	10/31	5/16	10/33	1/3	1/3	1/3	12/37	6/19	4/13	1/3	1/3	1/3	14/43	7/22	14/45	1/3	1/3	1/3	16/49	8/25	16/51	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34
13	3/10	2/7	3/11	6/19	6/19	6/19	4/13	8/27	2/7	13/44	6/19	6/19	5/16	10/33	5/17	2/7	6/19	6/19	6/19	4/13	3/10	12/41	6/19	6/19	6/19	14/45	7/23	14/47	19/63	6/19	6/19	16/51	4/13	16/53	8/27	6/19	6/19	6/19	9/29	18/59	3/10	6/19	6/19	6/19	6/19	5/16	4/13	10/33	25/82	6/19	6/19
14	2/7	3/11	6/23	3/10	3/10	3/10	8/27	2/7	8/29	7/26	3/10	3/10	3/10	5/17	2/7	5/18	15/53	3/10	3/10	3/10	12/41	2/7	12/43	3/10	3/10	3/10	14/47	7/24	2/7	7/25	3/10	3/10	3/10	8/27	16/55	2/7	21/73	3/10	3/10	3/10	18/61	9/31	2/7	3/10	3/10	3/10	20/67	5/17	20/69	2/7
15	7/23	7/23	1/4	2/7	2/7	7/23	7/23	7/23	9/32	9/32	5/17	7/23	7/23	15/52	11/38	11/38	3/10	7/23	7/23	2/7	13/44	13/44	7/23	7/23	7/23	2/7	13/44	13/44	7/23	7/23	7/23	16/55	16/55	17/57	7/23	7/23	22/75	18/61	18/61	19/63	7/23	7/23	19/65	20/67	20/67	7/23	7/23	7/23	19/65	20/67
16	1/3	1/3	7/27	2/7	9/29	1/3	1/3	1/3	3/11	5/17	11/35	1/3	1/3	1/3	11/39	3/10	13/41	1/3	1/3	1/3	13/45	7/23	15/47	1/3	1/3	1/3	5/17	4/13	17/53	1/3	1/3	1/3	17/57	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3
17	1/3	8/25	4/15	9/29	1/3	1/3	1/3	10/31	5/17	11/35	1/3	1/3	1/3	12/37	6/19	13/41	1/3	1/3	1/3	14/43	7/22	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73
18	8/25	4/13	13/47	1/3	1/3	1/3	10/31	5/16	10/33	1/3	1/3	1/3	12/37	6/19	4/13	1/3	1/3	1/3	14/43	7/22	14/45	1/3	1/3	1/3	16/49	8/25	16/51	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3	24/73	12/37
19	4/13	8/27	2/7	8/25	8/25	8/25	5/16	10/33	5/17	17/56	8/25	8/25	6/19	4/13	3/10	12/41	8/25	8/25	7/22	14/45	7/23	14/47	8/25	8/25	8/25	16/51	4/13	16/53	8/25	8/25	8/25	6/19	9/29	18/59	25/81	8/25	8/25	20/63	5/16	4/13	10/33	8/25	8/25	22/69	11/35	22/71	11/36	8/25	8/25	8/25
20	8/27	2/7	8/29	4/13	4/13	4/13	10/33	5/17	2/7	9/32	4/13	4/13	4/13	3/10	12/41	2/7	4/13	4/13	4/13	7/23	14/47	7/24	2/7	4/13	4/13	4/13	16/53	8/27	16/55	4/13	4/13	4/13	18/59	3/10	18/61	9/31	4/13	4/13	4/13	10/33	20/67	5/17	4/13	4/13	4/13	11/36	22/73	11/37	22/75	4/13
21	9/29	9/29	4/15	8/27	8/27	9/29	9/29	9/29	5/18	19/66	3/10	9/29	9/29	19/64	13/44	13/44	7/23	9/29	9/29	8/27	3/10	3/10	4/13	9/29	9/29	8/27	17/56	17/56	9/29	9/29	9/29	8/27	17/56	17/56	9/29	9/29	9/29	20/67	20/67	7/23	9/29	9/29	28/93	22/73	22/73	23/75	9/29	9/29	23/77	24/79
22	1/3	1/3	3/11	5/17	11/35	1/3	1/3	1/3	11/39	3/10	13/41	1/3	1/3	1/3	13/45	7/23	15/47	1/3	1/3	1/3	5/17	4/13	17/53	1/3	1/3	1/3	17/57	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3	23/75	6/19	25/77	1/3	1/3	1/3
23	1/3	10/31	5/19	11/35	1/3	1/3	1/3	12/37	2/7	13/41	1/3	1/3	1/3	14/43	7/23	15/47	1/3	1/3	1/3	16/49	8/25	17/53	1/3	1/3	1/3	18/55	9/28	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79
24	10/31	5/16	16/59	1/3	1/3	1/3	12/37	6/19	4/13	1/3	1/3	1/3	14/43	7/22	14/45	1/3	1/3	1/3	16/49	8/25	16/51	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3	24/73	12/37	8/25	1/3	1/3	1/3	26/79	13/40
25	5/16	10/33	17/61	10/31	10/31	10/31	6/19	4/13	3/10	21/68	10/31	10/31	7/22	14/45	7/23	14/47	10/31	10/31	8/25	16/51	4/13	16/53	10/31	10/31	9/28	6/19	9/29	18/59	10/31	10/31	10/31	20/63	5/16	4/13	10/31	10/31	10/31	22/69	11/35	22/71	31/99	10/31	10/31	8/25	6/19	24/77	4/13	10/31	10/31	26/81
26	10/33	5/17	2/7	5/16	5/16	5/16	4/13	3/10	12/41	11/38	5/16	5/16	14/45	7/23	14/47	12/41	5/16	5/16	5/16	4/13	16/53	8/27	25/83	5/16	5/16	9/29	18/59	3/10	18/61	5/16	5/16	5/16	4/13	10/33	20/67	5/16	5/16	5/16	22/71	11/36	22/73	11/37	5/16	5/16	24/77	4/13	24/79	3/10	5/16	5/16
27	11/35	11/35	5/18	10/33	10/33	11/35	11/35	11/35	2/7	23/78	7/23	11/35	11/35	23/76	7/24	25/84	4/13	11/35	11/35	16/53	17/56	17/56	9/29	11/35	11/35	10/33	19/62	19/62	5/16	11/35	11/35	10/33	21/68	21/68	11/35	11/35	11/35	10/33	21/68	21/68	11/35	11/35	11/35	24/79	24/79	25/81	11/35	11/35	19/62	26/85
28	1/3	1/3	10/37	3/10	13/41	1/3	1/3	1/3	13/45	7/23	15/47	1/3	1/3	1/3	5/17	4/13	17/53	1/3	1/3	1/3	17/57	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3	23/75	6/19	25/77	1/3	1/3	1/3	25/81	13/41	27/83	1/3	1/3	1/3
29	1/3	12/37	5/19	13/41	1/3	1/3	1/3	14/43	7/25	15/47	1/3	1/3	1/3	16/49	8/27	17/53	1/3	1/3	1/3	18/55	9/29	19/59	1/3	1/3	1/3	20/61	10/31	21/65	1/3	1/3	1/3	22/67	11/34	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3	1/3	28/85
30	12/37	6/19	19/71	1/3	1/3	1/3	14/43	7/22	23/77	1/3	1/3	1/3	16/49	8/25	16/51	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3	24/73	12/37	8/25	1/3	1/3	1/3	26/79	13/40	26/81	1/3	1/3	1/3	28/85	14/43
31	6/19	4/13	20/73	12/37	12/37	12/37	7/22	14/45	7/23	5/16	12/37	12/37	8/25	16/51	4/13	13/43	12/37	12/37	9/28	6/19	9/29	18/59	12/37	12/37	10/31	20/63	5/16	4/13	12/37	12/37	11/34	22/69	11/35	22/71	12/37	12/37	12/37	8/25	6/19	24/77	12/37	12/37	12/37	26/81	13/41	26/83	31/98	12/37	12/37	28/87
32	4/13	3/10	7/25	6/19	6/19	6/19	14/45	7/23	14/47	13/44	6/19	6/19	16/51	4/13	16/53	14/47	6/19	6/19	6/19	9/29	18/59	3/10	6/19	6/19	6/19	5/16	4/13	10/33	3/10	6/19	6/19	11/35	22/71	11/36	22/73	6/19	6/19	6/19	24/77	4/13	24/79	6/19	6/19	6/19	26/83	13/42	26/85	13/43	6/19	6/19
33	13/41	13/41	2/7	4/13	4/13	13/41	13/41	13/41	7/24	3/10	4/13	13/41	13/41	27/88	8/27	29/96	9/29	13/41	13/41	18/59	3/10	24/79	5/16	13/41	13/41	4/13	21/68	21/68	11/35	13/41	13/41	4/13	23/74	23/74	6/19	13/41	13/41	4/13	5/16	5/16	13/41	13/41	13/41	4/13	23/74	5/16	13/41	13/41	13/41	4/13
34	1/3	1/3	12/43	7/23	15/47	1/3	1/3	1/3	5/17	4/13	17/53	1/3	1/3	1/3	17/57	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3	23/75	6/19	25/77	1/3	1/3	1/3	25/81	13/41	27/83	1/3	1/3	1/3	9/29	7/22	29/89	1/3	1/3	1/3
35	1/3	14/43	3/11	15/47	1/3	1/3	1/3	16/49	25/87	17/53	1/3	1/3	1/3	18/55	29/99	19/59	1/3	1/3	1/3	20/61	10/33	21/65	1/3	1/3	1/3	22/67	11/35	23/71	1/3	1/3	1/3	24/73	12/37	25/77	1/3	1/3	1/3	26/79	13/40	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3	1/3	30/91
36	14/43	7/22	4/15	1/3	1/3	1/3	16/49	8/25	26/89	1/3	1/3	1/3	18/55	9/28	6/19	1/3	1/3	1/3	20/61	10/31	20/63	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3	24/73	12/37	8/25	1/3	1/3	1/3	26/79	13/40	26/81	1/3	1/3	1/3	28/85	14/43	28/87	1/3	1/3	1/3	30/91	15/46
37	7/22	14/45	23/85	14/43	14/43	14/43	8/25	16/51	4/13	29/92	14/43	14/43	9/28	6/19	9/29	15/49	14/43	14/43	10/31	20/63	5/16	4/13	14/43	14/43	11/34	22/69	11/35	22/71	14/43	14/43	12/37	8/25	6/19	24/77	14/43	14/43	13/40	26/81	13/41	26/83	14/43	14/43	14/43	28/87	7/22	28/89	29/92	14/43	14/43	10/31
38	14/45	7/23	8/29	7/22	7/22	7/22	16/51	4/13	16/53	3/10	7/22	7/22	6/19	9/29	18/59	16/53	7/22	7/22	20/63	5/16	4/13	17/56	7/22	7/22	7/22	11/35	22/71	11/36	22/71	7/22	7/22	6/19	24/77	4/13	7/23	7/22	7/22	13/41	26/83	13/42	26/85	7/22	7/22	7/22	28/89	14/45	4/13	22/71	27/85	7/22
39	15/47	15/47	25/89	14/45	14/45	15/47	15/47	15/47	8/27	24/79	14/45	15/47	15/47	22/71	3/10	11/36	5/16	15/47	15/47	4/13	10/33	27/88	11/35	15/47	15/47	22/71	11/36	25/81	6/19	15/47	15/47	14/45	5/16	5/16	13/41	15/47	15/47	14/45	27/86	27/86	7/22	15/47	15/47	14/45	29/92	29/92	15/47	15/47	15/47	23/74
40	1/3	1/3	2/7	4/13	17/53	1/3	1/3	1/3	16/55	9/29	19/59	1/3	1/3	1/3	19/63	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3	23/75	6/19	25/77	1/3	1/3	1/3	25/81	13/41	27/83	1/3	1/3	1/3	9/29	7/22	29/89	1/3	1/3	1/3	29/93	15/47	31/95	1/3	1/3	1/3
41	1/3	16/49	7/25	17/53	1/3	1/3	1/3	18/55	29/99	19/59	1/3	1/3	1/3	20/61	18/61	21/65	1/3	1/3	1/3	22/67	29/97	23/71	1/3	1/3	1/3	24/73	4/13	25/77	1/3	1/3	1/3	26/79	13/41	27/83	1/3	1/3	1/3	28/85	14/43	29/89	1/3	1/3	1/3	30/91	15/46	31/95	1/3	1/3	1/3	32/97
42	16/49	8/25	14/51	1/3	1/3	1/3	18/55	9/28	27/94	1/3	1/3	1/3	20/61	10/31	29/94	1/3	1/3	1/3	22/67	11/34	22/69	1/3	1/3	1/3	24/73	12/37	8/25	1/3	1/3	1/3	26/79	13/40	26/81	1/3	1/3	1/3	28/85	14/43	28/87	1/3	1/3	1/3	30/91	15/46	10/31	1/3	1/3	1/3	32/97	16/49
43	8/25	16/51	7/26	16/49	16/49	16/49	9/28	6/19	28/93	20/63	16/49	16/49	10/31	20/63	5/16	17/55	16/49	16/49	11/34	22/69	11/35	3/10	16/49	16/49	12/37	8/25	6/19	24/77	16/49	16/49	13/40	26/81	13/41	26/83	16/49	16/49	14/43	28/87	7/22	28/89	16/49	16/49	15/46	10/31	15/47	6/19	16/49	16/49	16/49	32/99
44	16/51	4/13	3/11	8/25	8/25	8/25	6/19	9/29	18/59	16/53	8/25	8/25	20/63	5/16	4/13	18/59	8/25	8/25	22/69	11/35	22/71	19/62	8/25	8/25	8/25	6/19	24/77	4/13	8/25	8/25	8/25	13/41	26/83	13/42	4/13	8/25	8/25	7/22	28/89	14/45	4/13	8/25	8/25	7/22	29/92	29/92	15/47	15/47	5/16	30/97	8/25
45	17/53	17/53	23/83	16/51	16/51	17/53	17/53	17/53	3/10	27/88	16/51	17/53	17/53	5/16	10/33	29/94	11/35	17/53	17/53	22/71	11/36	13/42	6/19	17/53	17/53	24/77	4/13	25/81	13/41	17/53	17/53	26/83	13/42	9/29	7/22	17/53	17/53	16/51	29/92	29/92	15/47	17/53	17/53	16/51	31/98	31/98	8/25	17/53	17/53	16/51
46	1/3	1/3	20/71	9/29	19/59	1/3	1/3	1/3	18/61	5/16	21/65	1/3	1/3	1/3	7/23	11/35	23/71	1/3	1/3	1/3	23/75	6/19	25/77	1/3	1/3	1/3	25/81	13/41	27/83	1/3	1/3	1/3	9/29	7/22	29/89	1/3	1/3	1/3	29/93	15/47	31/95	1/3	1/3	1/3	31/99	8/25	17/52	1/3	1/3	1/3
47	1/3	18/55	2/7	19/59	1/3	1/3	1/3	20/61	9/31	21/65	1/3	1/3	1/3	22/67	29/97	23/71	1/3	1/3	1/3	24/73	13/43	25/77	1/3	1/3	1/3	26/79	13/43	27/83	1/3	1/3	1/3	28/85	14/45	29/89	1/3	1/3	1/3	30/91	15/47	31/95	1/3	1/3	1/3	32/97	16/49	17/52	1/3	1/3	1/3	32/97
48	18/55	9/28	16/57	1/3	1/3	1/3	20/61	10/31	26/89	1/3	1/3	1/3	22/67	11/34	23/76	1/3	1/3	1/3	24/73	12/37	8/25	1/3	1/3	1/3	26/79	13/40	26/81	1/3	1/3	1/3	28/85	14/43	28/87	1/3	1/3	1/3	30/91	15/46	10/31	1/3	1/3	1/3	32/97	16/49	32/99	1/3	1/3	1/3	32/97	17/52
49	9/28	6/19	8/29	20/63	18/55	18/55	10/31	20/63	21/71	22/69	18/55	18/55	11/34	22/69	11/35	19/61	18/55	18/55	12/37	8/25	6/19	26/85	18/55	18/55	13/40	26/81	13/41	25/82	18/55	18/55	14/43	28/87	7/22	28/89	18/55	18/55	15/46	10/31	15/47	6/19	18/55	18/55	16/49	32/99	8/25	19/60	18/55	18/55	17/52	23/71
50	6/19	9/29	16/59	9/29	9/28	9/28	20/63	5/16	4/13	17/56	9/28	9/28	22/69	11/35	22/71	19/62	9/28	9/28	8/25	6/19	24/77	21/68	9/28	9/28	26/81	13/41	26/83	13/42	9/28	9/28	9/28	7/22	28/89	14/45	28/89	9/28	9/28	15/47	6/19	5/16	9/29	9/28	9/28	8/25	19/60	16/51	23/74	9/28	9/28	17/53

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{2, 3, 4, 4+k, 4+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	1/4	1/5	1/4	1/4	1/4	1/4	1/4	1/4	1/4	2/9	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4/17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5/21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	6/25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	7/29
2	1/5	1/4	1/4	1/4	2/9	1/4	1/4	1/4	2/9	1/4	1/4	5/22	1/4	1/4	1/4	1/4	3/13	1/4	1/4	7/30	1/4	1/4	1/4	9/38	1/4	1/4	4/17	1/4	1/4	1/4	1/4	1/4	5/21	1/4	1/4	1/4	11/46	1/4	1/4	1/4	1/4	6/25	1/4	1/4	13/54	1/4	1/4	1/4	1/4	7/29	1/4
3	4/17	3/13	3/13	4/17	2/9	4/17	4/17	3/13	3/13	3/13	4/17	4/17	7/30	4/17	3/13	3/13	4/17	4/17	7/30	7/30	4/17	3/13	4/17	4/17	7/30	10/43	7/30	4/17	4/17	11/47	4/17	10/43	10/43	4/17	4/17	11/47	11/47	4/17	13/56	4/17	4/17	11/47	7/30	11/47	4/17	4/17	15/64	4/17	7/30	7/30
4	2/7	2/7	2/7	1/4	1/4	1/4	2/7	2/7	2/7	2/7	9/37	1/4	7/27	2/7	2/7	2/7	2/7	1/4	8/31	9/34	2/7	2/7	2/7	2/7	8/31	5/19	11/41	2/7	2/7	2/7	2/7	5/19	4/15	13/48	2/7	2/7	2/7	2/7	4/15	7/26	3/11	2/7	2/7	2/7	2/7	7/26	16/59	17/62	2/7	2/7
5	2/7	2/7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	7/27	2/7	2/7	2/7	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7
6	2/7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	7/27	2/7	2/7	2/7	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7
7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	8/31	2/7	2/7	2/7	2/7	8/29	4/15	5/19	2/7	2/7	2/7	2/7	5/18	10/37	4/15	2/7	2/7	2/7	2/7	12/43	3/11	7/26	2/7	2/7	2/7	2/7	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32
8	1/4	1/4	8/33	4/15	4/15	4/15	4/15	6/23	1/4	1/4	12/49	4/15	4/15	4/15	4/15	8/31	1/4	1/4	4/15	4/15	4/15	4/15	5/19	10/39	1/4	1/4	4/15	4/15	4/15	4/15	6/23	12/47	15/59	4/15	4/15	4/15	4/15	14/53	7/27	14/55	15/59	4/15	4/15	4/15	4/15	4/15	16/61	8/31	19/74	4/15	4/15
9	1/4	2/9	1/4	1/4	1/4	1/4	1/4	1/4	1/4	16/69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4/17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5/21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	6/25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	7/29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	8/33
10	1/4	1/4	1/4	1/4	10/41	1/4	1/4	1/4	1/4	1/4	1/4	14/57	1/4	1/4	1/4	15/61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	20/81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	24/97	1/4	1/4	1/4	20/81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
11	2/7	2/7	2/7	8/33	6/25	7/27	2/7	2/7	2/7	2/7	1/4	1/4	9/34	2/7	2/7	2/7	2/7	10/39	10/39	11/41	2/7	2/7	2/7	2/7	6/23	6/23	13/48	2/7	2/7	2/7	2/7	7/25	14/53	14/53	3/11	2/7	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7
12	2/7	2/7	3/11	1/4	7/27	2/7	2/7	2/7	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7
13	2/7	3/11	6/23	7/27	2/7	2/7	2/7	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7
14	3/11	6/23	8/31	2/7	2/7	2/7	2/7	8/29	4/15	5/19	2/7	2/7	2/7	2/7	5/18	10/37	4/15	2/7	2/7	2/7	2/7	12/43	3/11	7/26	2/7	2/7	2/7	2/7	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71
15	6/23	1/4	1/4	3/11	3/11	3/11	3/11	4/15	8/31	25/99	13/51	3/11	3/11	3/11	10/37	5/19	10/39	13/51	3/11	3/11	3/11	3/11	4/15	6/23	15/58	3/11	3/11	3/11	3/11	7/26	14/53	7/27	19/73	3/11	3/11	3/11	16/59	4/15	16/61	19/73	3/11	3/11	3/11	3/11	18/67	9/34	21/80	3/11	3/11	3/11
16	1/4	1/4	12/49	6/23	6/23	6/23	6/23	8/31	1/4	1/4	16/65	6/23	6/23	6/23	6/23	10/39	1/4	1/4	20/81	6/23	6/23	6/23	6/23	12/47	1/4	1/4	6/23	6/23	6/23	6/23	7/27	14/55	1/4	1/4	6/23	6/23	6/23	6/23	8/31	16/63	1/4	1/4	6/23	6/23	6/23	9/35	18/71	23/91	6/23
17	7/27	7/27	7/27	8/31	14/55	8/31	7/27	7/27	7/27	7/27	8/31	8/31	18/71	7/27	7/27	7/27	19/75	8/31	1/4	10/39	7/27	7/27	7/27	21/82	13/51	13/51	7/27	7/27	7/27	7/27	15/58	19/74	15/58	7/27	7/27	7/27	7/27	15/58	15/58	21/82	7/27	7/27	7/27	13/51	15/58	18/71	17/66	7/27	7/27	7/27
18	2/7	2/7	2/7	1/4	1/4	9/34	2/7	2/7	2/7	2/7	10/39	10/39	11/41	2/7	2/7	2/7	2/7	6/23	6/23	13/48	2/7	2/7	2/7	2/7	14/53	14/53	3/11	2/7	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7	2/7	2/7	10/37	10/37	21/76	2/7	2/7
19	2/7	2/7	8/29	12/49	9/34	2/7	2/7	2/7	2/7	5/18	15/59	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7
20	2/7	8/29	4/15	9/34	2/7	2/7	2/7	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7
21	8/29	4/15	5/19	2/7	2/7	2/7	2/7	5/18	10/37	4/15	2/7	2/7	2/7	2/7	12/43	3/11	7/26	2/7	2/7	2/7	2/7	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71	5/18	11/40	2/7	2/7	2/7	2/7	11/39
22	4/15	8/31	21/82	8/29	8/29	8/29	8/29	10/37	5/19	17/66	17/65	8/29	8/29	8/29	3/11	4/15	23/88	15/58	8/29	8/29	8/29	14/51	7/26	14/53	17/65	8/29	8/29	8/29	8/29	8/29	16/59	4/15	19/72	8/29	8/29	8/29	3/11	18/67	9/34	25/94	8/29	8/29	8/29	20/73	10/37	4/15	24/91	8/29	8/29	8/29
23	8/31	1/4	1/4	4/15	4/15	4/15	4/15	5/19	10/39	1/4	17/67	4/15	4/15	4/15	4/15	6/23	12/47	16/63	4/15	4/15	4/15	4/15	14/53	7/27	8/31	18/71	4/15	4/15	4/15	4/15	16/61	8/31	10/39	4/15	4/15	4/15	4/15	9/34	6/23	9/35	25/97	4/15	4/15	4/15	4/15	5/19	20/77	8/31	4/15	4/15
24	9/34	9/34	9/34	5/19	6/23	5/19	9/34	9/34	9/34	9/34	5/19	5/19	22/85	9/34	9/34	9/34	23/89	5/19	13/51	6/23	9/34	9/34	9/34	25/96	15/58	15/58	28/99	9/34	9/34	9/34	16/61	17/65	17/65	9/34	9/34	9/34	9/34	19/72	26/99	19/72	9/34	9/34	9/34	9/34	19/72	19/72	23/88	9/34	9/34	9/34
25	2/7	2/7	2/7	10/39	10/39	11/41	2/7	2/7	2/7	2/7	6/23	6/23	13/48	2/7	2/7	2/7	2/7	14/53	14/53	3/11	2/7	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7	2/7	2/7	10/37	10/37	21/76	2/7	2/7	2/7	2/7	22/81	22/81	23/83	2/7	2/7
26	2/7	2/7	5/18	1/4	11/41	2/7	2/7	2/7	2/7	12/43	12/47	13/48	2/7	2/7	2/7	2/7	7/25	21/80	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7
27	2/7	5/18	10/37	11/41	2/7	2/7	2/7	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7
28	5/18	10/37	4/15	2/7	2/7	2/7	2/7	12/43	3/11	7/26	2/7	2/7	2/7	2/7	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71	5/18	11/40	2/7	2/7	2/7	2/7	11/39	22/79	8/29	2/7	2/7	2/7	2/7	24/85
29	10/37	5/19	25/96	5/18	5/18	5/18	5/18	3/11	4/15	23/88	21/79	5/18	5/18	5/18	14/51	7/26	23/87	7/27	5/18	5/18	5/18	8/29	16/59	4/15	26/99	5/18	5/18	5/18	18/65	3/11	18/67	21/79	5/18	5/18	5/18	5/18	20/73	10/37	4/15	5/18	5/18	5/18	5/18	11/40	22/81	11/41	24/89	5/18	5/18	5/18
30	5/19	10/39	13/51	10/37	10/37	10/37	10/37	4/15	6/23	10/39	7/27	10/37	10/37	10/37	7/26	14/53	7/27	9/35	10/37	10/37	10/37	10/37	4/15	16/61	22/85	25/96	10/37	10/37	10/37	18/67	9/34	5/19	22/85	10/37	10/37	10/37	10/37	4/15	5/19	6/23	10/37	10/37	10/37	10/37	11/41	22/83	11/42	26/99	10/37	10/37	10/37
31	11/41	11/41	11/41	4/15	22/83	4/15	11/41	11/41	11/41	11/41	4/15	4/15	5/19	11/41	11/41	11/41	16/61	4/15	15/58	14/53	11/41	11/41	11/41	24/91	17/65	17/65	17/64	11/41	11/41	11/41	22/83	19/72	19/72	4/15	11/41	11/41	11/41	25/94	21/79	21/79	11/41	11/41	11/41	11/41	23/86	4/15	23/86	11/41	11/41	11/41
32	2/7	2/7	2/7	6/23	6/23	13/48	2/7	2/7	2/7	2/7	14/53	14/53	3/11	2/7	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7	2/7	2/7	10/37	10/37	21/76	2/7	2/7	2/7	2/7	22/81	22/81	23/83	2/7	2/7	2/7	2/7	3/11	3/11	5/18	2/7	2/7
33	2/7	2/7	12/43	12/47	13/48	2/7	2/7	2/7	2/7	7/25	7/27	3/11	2/7	2/7	2/7	2/7	16/57	16/61	17/62	2/7	2/7	2/7	2/7	9/32	23/86	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7	2/7	24/85	12/43	5/18	2/7	2/7	2/7
34	2/7	12/43	3/11	13/48	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7	2/7	24/85	12/43	5/18	2/7	2/7	2/7	2/7
35	12/43	3/11	7/26	2/7	2/7	2/7	2/7	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71	5/18	11/40	2/7	2/7	2/7	2/7	11/39	22/79	8/29	2/7	2/7	2/7	2/7	24/85	12/43	13/47	2/7	2/7	2/7	2/7	13/46
36	3/11	4/15	21/80	12/43	12/43	12/43	12/43	14/51	7/26	14/53	25/93	12/43	12/43	12/43	8/29	16/59	4/15	16/61	12/43	12/43	12/43	18/65	3/11	18/67	9/34	12/43	12/43	12/43	5/18	20/73	10/37	4/15	12/43	12/43	12/43	22/79	11/40	22/81	25/93	12/43	12/43	12/43	12/43	12/43	8/29	3/11	24/89	12/43	12/43	12/43
37	4/15	6/23	15/58	3/11	3/11	3/11	3/11	7/26	14/53	7/27	5/19	3/11	3/11	3/11	16/59	4/15	16/61	19/73	3/11	3/11	3/11	3/11	18/67	9/34	21/80	3/11	3/11	3/11	3/11	10/37	4/15	24/91	11/42	3/11	3/11	3/11	22/81	11/41	4/15	26/99	3/11	3/11	3/11	3/11	24/89	4/15	24/91	3/11	3/11	3/11
38	13/48	13/48	13/48	7/26	26/97	7/26	13/48	13/48	13/48	13/48	7/26	7/26	4/15	13/48	13/48	13/48	22/83	7/26	4/15	4/15	13/48	13/48	13/48	19/72	19/72	19/72	19/71	13/48	13/48	13/48	23/86	21/79	21/79	18/67	13/48	13/48	13/48	26/97	23/86	23/86	24/89	13/48	13/48	13/48	25/93	25/93	25/93	13/48	13/48	13/48
39	2/7	2/7	2/7	14/53	14/53	3/11	2/7	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7	2/7	2/7	10/37	10/37	21/76	2/7	2/7	2/7	2/7	22/81	22/81	23/83	2/7	2/7	2/7	2/7	3/11	3/11	5/18	2/7	2/7	2/7	2/7	26/95	26/95	27/97	2/7	2/7
40	2/7	2/7	7/25	7/27	3/11	2/7	2/7	2/7	2/7	16/57	16/61	17/62	2/7	2/7	2/7	2/7	9/32	9/34	19/69	2/7	2/7	2/7	2/7	20/71	4/15	21/76	2/7	2/7	2/7	2/7	11/39	23/85	23/83	2/7	2/7	2/7	2/7	24/85	12/43	5/18	2/7	2/7	2/7	2/7	13/46	26/93	27/97	2/7	2/7	2/7
41	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7	2/7	24/85	12/43	5/18	2/7	2/7	2/7	2/7	13/46	26/93	27/97	2/7	2/7	2/7	2/7
42	7/25	14/51	16/59	2/7	2/7	2/7	2/7	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71	5/18	11/40	2/7	2/7	2/7	2/7	11/39	22/79	8/29	2/7	2/7	2/7	2/7	24/85	12/43	13/47	2/7	2/7	2/7	2/7	13/46	26/93	23/83	2/7	2/7	2/7	2/7	28/99
43	14/51	7/26	14/53	7/25	7/25	7/25	7/25	8/29	16/59	4/15	16/59	7/25	7/25	7/25	18/65	3/11	18/67	9/34	7/25	7/25	7/25	5/18	20/73	10/37	4/15	7/25	7/25	7/25	22/79	11/40	22/81	11/41	7/25	7/25	7/25	12/43	8/29	3/11	24/89	7/25	7/25	7/25	26/93	13/47	26/95	13/48	7/25	7/25	7/25	7/25
44	7/26	14/53	17/65	14/51	14/51	14/51	14/51	16/59	4/15	16/61	25/94	14/51	14/51	14/51	3/11	18/67	9/34	6/23	14/51	14/51	14/51	20/73	10/37	4/15	5/19	14/51	14/51	14/51	14/51	22/81	11/41	13/49	23/86	14/51	14/51	14/51	3/11	24/89	4/15	13/49	14/51	14/51	14/51	26/95	13/48	7/26	17/64	14/51	14/51	14/51
45	3/11	3/11	3/11	16/59	10/37	16/59	3/11	3/11	3/11	3/11	16/59	16/59	7/26	3/11	3/11	3/11	23/86	16/59	7/26	7/26	3/11	3/11	3/11	26/97	25/94	23/87	24/89	3/11	3/11	3/11	25/93	23/86	23/86	24/89	3/11	3/11	3/11	24/89	25/93	25/93	13/48	3/11	3/11	3/11	23/85	17/63	17/63	25/92	3/11	3/11
46	2/7	2/7	2/7	4/15	4/15	17/62	2/7	2/7	2/7	2/7	18/67	18/67	19/69	2/7	2/7	2/7	2/7	10/37	10/37	21/76	2/7	2/7	2/7	2/7	22/81	22/81	23/83	2/7	2/7	2/7	2/7	3/11	3/11	5/18	2/7	2/7	2/7	2/7	26/95	26/95	27/97	2/7	2/7	2/7	2/7	14/51	14/51	17/61	2/7	2/7
47	2/7	2/7	16/57	16/61	17/62	2/7	2/7	2/7	2/7	9/32	9/34	19/69	2/7	2/7	2/7	2/7	20/71	4/15	21/76	2/7	2/7	2/7	2/7	11/39	11/41	23/83	2/7	2/7	2/7	2/7	24/85	24/89	5/18	2/7	2/7	2/7	2/7	13/46	13/48	27/97	2/7	2/7	2/7	2/7	28/99	7/25	17/61	2/7	2/7	2/7
48	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7	20/71	5/18	21/76	2/7	2/7	2/7	2/7	11/39	22/79	23/83	2/7	2/7	2/7	2/7	24/85	12/43	5/18	2/7	2/7	2/7	2/7	13/46	26/93	27/97	2/7	2/7	2/7	2/7	28/99	7/25	17/61	2/7	2/7	2/7	2/7
49	16/57	8/29	3/11	2/7	2/7	2/7	2/7	9/32	18/65	20/73	2/7	2/7	2/7	2/7	20/71	5/18	11/40	2/7	2/7	2/7	2/7	11/39	22/79	8/29	2/7	2/7	2/7	2/7	24/85	12/43	13/47	2/7	2/7	2/7	2/7	13/46	26/93	23/83	2/7	2/7	2/7	2/7	28/99	7/25	5/18	2/7	2/7	2/7	2/7	15/53
50	8/29	16/59	4/15	16/57	16/57	16/57	16/57	18/65	3/11	18/67	3/11	16/57	16/57	16/57	5/18	20/73	10/37	4/15	16/57	16/57	16/57	22/79	11/40	22/81	11/41	16/57	16/57	16/57	12/43	8/29	3/11	24/89	16/57	16/57	16/57	26/93	13/47	26/95	13/48	16/57	16/57	16/57	7/25	23/83	14/51	25/92	16/57	16/57	16/57	23/82

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{2, 3, 5, 5+k, 5+k+i\}$.

$k \backslash i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2/9	1/5	2/9	1/4	1/4	1/4	1/4	1/4	4/17	2/9	5/23	1/4	1/4	1/4	1/4	1/4	6/25	3/13	7/31	1/4	1/4	1/4	1/4	1/4	8/33	4/17	3/13	1/4	1/4	1/4	1/4	1/4	10/41	5/21	11/47	1/4	1/4	1/4	1/4	1/4	12/49	6/25	13/55	1/4	1/4	1/4	1/4	1/4	14/57	7/29
2	1/3	3/14	1/3	1/3	4/17	1/3	1/3	1/4	1/3	1/3	6/23	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62
3	3/13	1/3	1/3	1/4	1/3	1/3	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3
4	2/7	2/7	2/7	6/25	3/13	1/4	2/7	2/7	2/7	2/7	1/4	6/25	7/27	2/7	2/7	2/7	2/7	10/39	1/4	9/34	2/7	2/7	2/7	2/7	6/23	10/39	11/41	2/7	2/7	2/7	2/7	14/53	6/23	13/48	2/7	2/7	2/7	2/7	4/15	14/53	3/11	2/7	2/7	2/7	2/7	18/67	4/15	17/62	2/7	2/7
5	1/3	2/7	1/3	1/3	1/4	1/3	1/3	2/7	1/3	1/3	7/26	1/3	1/3	2/7	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13
6	2/7	1/3	1/3	7/26	1/3	1/3	2/7	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3
7	4/15	1/4	1/4	2/7	2/7	2/7	2/7	3/11	6/23	1/4	2/7	2/7	2/7	2/7	8/29	4/15	8/31	2/7	2/7	2/7	2/7	5/18	10/37	5/19	2/7	2/7	2/7	2/7	12/43	3/11	4/15	2/7	2/7	2/7	2/7	7/25	14/51	7/26	2/7	2/7	2/7	2/7	16/57	8/29	16/59	2/7	2/7	2/7	2/7	9/32
8	1/3	1/4	1/3	1/3	4/15	1/3	1/3	7/26	1/3	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68
9	5/19	1/3	1/3	3/11	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3
10	1/4	5/19	5/19	1/4	5/19	7/26	7/26	5/19	7/26	6/23	10/41	5/19	7/26	1/4	7/26	7/26	25/99	5/19	4/15	6/23	5/19	7/26	10/39	5/19	4/15	7/26	5/19	4/15	11/42	17/66	5/19	7/26	7/26	4/15	7/26	19/72	5/19	17/64	7/26	5/19	7/26	7/26	5/19	17/64	19/71	19/72	17/64	7/26	6/23	5/19
11	1/3	2/7	1/3	1/3	7/26	1/3	1/3	2/7	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71
12	2/7	1/3	1/3	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3
13	2/7	3/11	3/11	6/23	2/7	2/7	2/7	2/7	8/29	7/26	9/34	2/7	2/7	2/7	2/7	5/18	10/37	3/11	2/7	2/7	2/7	2/7	12/43	3/11	3/11	2/7	2/7	2/7	2/7	7/25	14/51	3/11	2/7	2/7	2/7	2/7	16/57	8/29	17/62	2/7	2/7	2/7	2/7	9/32	18/65	19/69	2/7	2/7	2/7	2/7
14	1/3	7/26	1/3	1/3	2/7	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74
15	7/25	1/3	1/3	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3
16	7/26	7/25	7/25	7/26	7/25	9/32	9/32	7/25	9/32	8/29	14/53	7/25	9/32	17/65	9/32	9/32	13/49	7/25	21/76	7/26	7/25	9/32	3/11	7/25	16/57	8/29	7/25	7/25	14/51	7/25	16/57	9/32	7/25	16/57	5/18	23/84	7/25	9/32	9/32	16/57	9/32	5/18	7/25	5/18	9/32	7/25	9/32	9/32	7/25	23/82
17	1/3	8/29	1/3	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77
18	2/7	1/3	1/3	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3
19	2/7	2/7	2/7	8/29	2/7	2/7	2/7	2/7	2/7	9/32	16/59	2/7	2/7	2/7	2/7	2/7	12/43	2/7	23/82	2/7	2/7	2/7	2/7	2/7	15/53	17/61	2/7	2/7	2/7	2/7	2/7	16/57	2/7	2/7	2/7	2/7	2/7	17/60	26/93	2/7	2/7	2/7	2/7	2/7	28/99	2/7	13/46	2/7	2/7	2/7
20	1/3	9/32	1/3	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16
21	9/31	1/3	1/3	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3
22	9/32	9/31	9/31	9/32	9/31	9/31	11/38	9/31	9/31	2/7	18/65	9/31	11/38	8/29	9/31	11/38	11/40	9/31	25/88	23/83	9/31	11/38	12/43	9/31	27/94	9/32	9/32	9/31	17/59	19/67	9/31	9/31	2/7	9/31	9/31	2/7	9/31	20/69	9/31	9/31	19/66	27/95	9/31	20/69	11/38	9/31	20/69	27/94	9/31	27/94
23	1/3	2/7	1/3	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83
24	5/17	1/3	1/3	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3
25	2/7	5/17	5/17	2/7	5/17	5/17	12/41	5/17	5/17	11/38	20/71	5/17	12/41	2/7	5/17	12/41	2/7	5/17	27/94	25/89	5/17	12/41	2/7	5/17	20/69	27/95	5/17	23/79	2/7	5/17	19/65	19/66	5/17	5/17	20/69	5/17	5/17	20/69	5/17	5/17	22/75	5/17	5/17	7/24	17/59	5/17	22/75	12/41	5/17	22/75
26	1/3	11/38	1/3	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86
27	11/37	1/3	1/3	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3
28	11/38	11/37	11/37	11/38	11/37	11/37	13/44	11/37	11/37	12/41	2/7	11/37	13/44	2/7	11/37	13/44	13/46	11/37	20/69	2/7	11/37	13/44	2/7	11/37	19/65	27/94	11/37	27/92	15/52	11/37	28/95	20/69	11/37	21/71	7/24	11/37	11/37	22/75	11/37	11/37	22/75	11/37	11/37	8/27	11/37	11/37	23/78	7/24	11/37	8/27
29	1/3	12/41	1/3	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89
30	3/10	1/3	1/3	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3
31	12/41	3/10	3/10	12/41	3/10	3/10	14/47	3/10	3/10	13/44	24/83	3/10	14/47	27/95	3/10	14/47	2/7	3/10	19/65	27/94	3/10	14/47	15/52	3/10	28/95	20/69	3/10	21/71	16/55	3/10	27/91	26/89	3/10	25/84	22/75	3/10	23/77	23/78	3/10	3/10	8/27	3/10	3/10	8/27	3/10	3/10	26/87	3/10	3/10	25/84
32	1/3	13/44	1/3	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92
33	13/43	1/3	1/3	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3
34	13/44	13/43	13/43	13/44	13/43	13/43	3/10	13/43	13/43	14/47	26/89	13/43	3/10	27/94	13/43	3/10	15/52	13/43	28/95	20/69	13/43	3/10	16/55	13/43	27/91	26/89	13/43	25/84	17/58	13/43	20/67	5/17	13/43	29/97	18/61	13/43	3/10	8/27	13/43	25/83	25/84	13/43	13/43	26/87	13/43	13/43	26/87	13/43	13/43	28/93
35	1/3	14/47	1/3	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19
36	7/23	1/3	1/3	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3
37	14/47	7/23	7/23	14/47	7/23	7/23	16/53	7/23	7/23	3/10	28/95	7/23	16/53	20/69	7/23	16/53	16/55	7/23	27/91	26/89	7/23	16/53	17/58	7/23	20/67	5/17	7/23	29/97	18/61	7/23	3/10	29/98	7/23	28/93	19/64	7/23	22/73	25/84	7/23	13/43	26/87	7/23	27/89	3/10	7/23	7/23	28/93	7/23	7/23	28/93
38	1/3	3/10	1/3	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98
39	15/49	1/3	1/3	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3
40	3/10	15/49	15/49	3/10	15/49	15/49	17/56	15/49	15/49	16/53	19/64	15/49	17/56	26/89	15/49	17/56	17/58	15/49	20/67	5/17	15/49	17/56	18/61	15/49	3/10	29/98	15/49	28/93	19/64	15/49	22/73	25/84	15/49	29/96	20/67	15/49	23/76	26/87	15/49	27/89	3/10	15/49	7/23	28/93	15/49	29/95	29/96	15/49	15/49	10/33
41	1/3	16/53	1/3	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60
42	4/13	1/3	1/3	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3
43	16/53	4/13	4/13	16/53	4/13	4/13	18/59	4/13	4/13	17/56	29/97	4/13	18/59	5/17	4/13	18/59	18/61	4/13	3/10	29/98	4/13	18/59	19/64	4/13	22/73	25/84	4/13	29/96	20/67	4/13	23/76	29/97	4/13	27/89	3/10	4/13	24/79	28/93	4/13	7/23	28/93	4/13	29/95	29/96	4/13	15/49	10/33	4/13	27/88	24/79
44	1/3	17/56	1/3	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63
45	17/55	1/3	1/3	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3
46	17/56	17/55	17/55	17/56	17/55	17/55	19/62	17/55	17/55	18/59	28/93	17/55	19/62	29/98	17/55	19/62	19/64	17/55	3/10	25/84	17/55	19/62	19/64	17/55	22/73	29/97	17/55	27/89	3/10	17/55	23/76	28/93	17/55	25/82	22/73	17/55	7/23	28/93	17/55	26/85	29/96	17/55	15/49	10/33	17/55	27/88	24/79	17/55	4/13	25/82
47	1/3	18/59	1/3	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63	1/3	1/3	27/85
48	9/29	1/3	1/3	19/61	1/3	1/3	5/16	1/3	1/3	21/67	1/3	1/3	11/35	1/3	1/3	23/73	1/3	1/3	6/19	1/3	1/3	25/79	1/3	1/3	13/41	1/3	1/3	27/85	1/3	1/3	7/22	1/3	1/3	29/91	1/3	1/3	15/47	1/3	1/3	31/97	1/3	1/3	8/25	1/3	1/3	25/78	1/3	1/3	17/53	1/3
49	18/59	9/29	9/29	18/59	9/29	9/29	4/13	9/29	9/29	18/59	23/76	9/29	4/13	25/84	9/29	4/13	19/64	9/29	3/10	29/97	9/29	4/13	20/67	9/29	23/76	28/93	9/29	25/82	3/10	9/29	27/89	28/93	9/29	25/82	23/76	9/29	29/95	29/97	9/29	15/49	10/33	9/29	27/88	24/79	9/29	4/13	25/82	9/29	29/94	11/36
50	1/3	19/62	1/3	1/3	4/13	1/3	1/3	21/68	1/3	1/3	22/71	1/3	1/3	23/74	1/3	1/3	24/77	1/3	1/3	5/16	1/3	1/3	26/83	1/3	1/3	27/86	1/3	1/3	28/89	1/3	1/3	29/92	1/3	1/3	6/19	1/3	1/3	31/98	1/3	1/3	19/60	1/3	1/3	20/63	1/3	1/3	27/85	1/3	1/3	7/22

Table. Lower bounds on $\overline{\mathrm{a}}(S)$ for $S = \{2, 4, 5, 5+k, 5+k+i\}$.

$k \setminus i$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	3/10	3/11	1/4	1/4	5/17	1/3	1/3	1/3	1/3	6/19	3/10	2/7	7/25	4/13	1/3	1/3	1/3	1/3	9/28	9/29	3/10	5/17	11/35	1/3	1/3	1/3	1/3	12/37	6/19	4/13	13/43	7/22	1/3	1/3	1/3	1/3	15/46	15/47	5/16	4/13	17/53	1/3	1/3	1/3	1/3	18/55	9/28	6/19	19/61	10/31
2	3/11	1/4	3/13	1/4	5/19	3/10	3/10	3/10	3/10	3/10	2/7	3/11	6/23	1/4	8/29	3/10	3/10	3/10	3/10	3/10	9/31	9/32	3/11	9/34	11/39	3/10	3/10	3/10	3/10	3/10	12/41	2/7	12/43	3/11	2/7	3/10	3/10	3/10	3/10	3/10	5/17	15/52	15/53	5/18	17/59	3/10	3/10	3/10	3/10
3	1/4	3/13	3/13	2/9	5/21	3/11	3/11	3/11	3/11	3/11	3/11	6/23	1/4	6/25	3/13	1/4	3/11	3/11	3/11	3/11	3/11	3/11	9/34	9/35	1/4	9/37	11/43	3/11	3/11	3/11	3/11	3/11	3/11	4/15	6/23	12/47	1/4	7/27	3/11	3/11	3/11	3/11	3/11	15/56	5/19	15/58	15/59	17/65	3/11
4	2/7	2/7	2/7	1/4	7/30	1/4	2/7	2/7	2/7	2/7	1/4	7/26	7/26	2/7	2/7	2/7	2/7	1/4	15/58	7/26	2/7	2/7	2/7	2/7	5/19	11/40	11/40	2/7	2/7	2/7	2/7	5/19	23/86	11/40	2/7	2/7	2/7	2/7	7/26	5/18	5/18	2/7	2/7	2/7	2/7	7/26	25/92	5/18	2/7	2/7
5	1/3	1/3	7/23	1/4	1/4	2/7	7/22	1/3	1/3	1/3	9/31	7/27	2/7	9/29	1/3	1/3	1/3	6/19	11/39	2/7	11/36	12/37	1/3	1/3	1/3	7/23	2/7	13/43	7/22	1/3	1/3	1/3	1/3	17/53	8/27	3/10	16/51	17/52	1/3	1/3	1/3	19/61	17/57	9/29	19/59	1/3	1/3	1/3	11/34	7/23	4/13
6	3/8	3/8	8/25	7/26	2/7	7/22	8/23	3/8	3/8	3/8	1/3	5/17	9/29	1/3	11/31	3/8	3/8	3/8	14/41	13/42	12/37	13/38	14/39	3/8	3/8	3/8	17/49	8/25	1/3	8/23	17/47	3/8	3/8	3/8	20/57	19/58	18/53	19/54	4/11	3/8	3/8	3/8	23/65	1/3	21/61	11/31	23/63	3/8	3/8	3/8
7	3/8	6/17	1/3	2/7	7/22	8/23	3/8	3/8	3/8	9/25	9/26	1/3	1/3	11/31	3/8	3/8	3/8	4/11	6/17	12/35	13/38	14/39	3/8	3/8	3/8	15/41	5/14	15/43	8/23	17/47	3/8	3/8	3/8	18/49	9/25	6/17	19/54	4/11	3/8	3/8	3/8	7/19	21/58	21/59	11/31	23/63	3/8	3/8	3/8
8	6/17	1/3	6/19	3/10	10/31	3/8	3/8	3/8	9/25	9/26	1/3	9/28	1/3	3/8	3/8	3/8	4/11	6/17	12/35	1/3	16/47	3/8	3/8	3/8	15/41	5/14	15/43	15/44	19/55	3/8	3/8	3/8	18/49	9/25	6/17	9/26	22/63	3/8	3/8	3/8	7/19	21/58	21/59	7/20	25/71	3/8	3/8	3/8	24/65	4/11
9	1/3	6/19	3/10	2/7	10/33	6/17	6/17	6/17	9/26	1/3	9/28	9/29	3/10	1/3	6/17	6/17	6/17	12/35	1/3	12/37	6/19	8/25	6/17	6/17	6/17	15/43	15/44	1/3	15/46	15/47	20/59	6/17	6/17	6/17	9/26	18/53	1/3	18/55	22/67	6/17	6/17	6/17	7/20	21/61	21/62	1/3	21/64	13/38	6/17	6/17
10	6/19	3/10	2/7	3/11	2/7	1/3	1/3	1/3	1/3	9/28	9/29	3/10	9/31	13/44	1/3	1/3	1/3	1/3	12/37	6/19	4/13	3/10	16/53	1/3	1/3	1/3	1/3	15/46	15/47	5/16	15/49	19/62	1/3	1/3	1/3	1/3	18/55	9/28	6/19	9/29	22/71	1/3	1/3	1/3	1/3	21/64	21/65	7/22	21/67	5/16
11	3/10	2/7	2/7	6/23	10/37	6/19	6/19	6/19	6/19	9/29	3/10	9/31	13/46	2/7	14/47	6/19	6/19	6/19	6/19	4/13	3/10	12/41	2/7	2/7	6/19	6/19	6/19	6/19	5/16	15/49	3/10	5/17	15/52	10/33	6/19	6/19	6/19	6/19	9/29	18/59	3/10	18/61	22/75	6/19	6/19	6/19	6/19	6/19	21/67	21/68	7/23
12	7/22	7/22	11/37	7/26	7/26	3/10	9/29	7/22	7/22	7/22	9/31	5/17	5/17	11/36	7/22	7/22	7/22	3/10	3/10	13/42	13/42	7/22	7/22	7/22	18/59	3/10	3/10	13/42	16/51	7/22	7/22	7/22	8/27	17/56	17/56	9/29	7/22	7/22	7/22	19/62	19/62	5/16	5/16	7/22	7/22	7/22	25/81	19/62	19/62	5/16
13	8/23	8/23	4/13	7/27	2/7	9/29	1/3	8/23	8/23	8/23	14/47	2/7	11/36	12/37	13/38	8/23	8/23	1/3	16/55	13/43	7/22	1/3	8/23	8/23	8/23	10/31	3/10	16/51	17/52	18/53	8/23	8/23	8/23	11/35	9/29	19/59	1/3	21/61	8/23	8/23	26/77	4/13	7/22	22/67	23/68	8/23	8/23	8/23	28/85	23/73
14	3/8	3/8	13/41	2/7	9/29	1/3	11/31	3/8	3/8	3/8	16/49	11/36	12/37	13/38	14/39	3/8	3/8	3/8	1/3	7/22	1/3	8/23	17/47	3/8	3/8	3/8	22/65	17/52	18/53	19/54	4/11	3/8	3/8	3/8	25/73	1/3	21/61	11/31	23/63	3/8	3/8	3/8	28/81	23/68	8/23	5/14	26/71	3/8	3/8	3/8
15	3/8	9/25	14/43	3/11	1/3	11/31	3/8	3/8	3/8	4/11	6/17	4/13	13/38	14/39	3/8	3/8	3/8	15/41	5/14	1/3	8/23	17/47	3/8	3/8	3/8	18/49	9/25	6/17	19/54	4/11	3/8	3/8	3/8	7/19	21/58	21/59	11/31	23/63	3/8	3/8	3/8	24/65	4/11	24/67	5/14	26/71	3/8	3/8	3/8	27/73
16	9/25	9/26	1/3	13/46	15/47	3/8	3/8	3/8	4/11	6/17	12/35	1/3	18/55	3/8	3/8	3/8	15/41	5/14	15/43	15/44	1/3	3/8	3/8	3/8	18/49	9/25	6/17	9/26	18/53	3/8	3/8	3/8	7/19	21/58	21/59	7/20	21/61	3/8	3/8	3/8	24/65	4/11	24/67	6/17	8/23	3/8	3/8	3/8	27/73	27/74
17	9/26	1/3	9/28	7/24	15/49	9/25	9/25	9/25	6/17	12/35	1/3	12/37	6/19	10/29	9/25	9/25	5/14	15/43	15/44	1/3	15/46	1/3	9/25	9/25	9/25	6/17	9/26	18/53	1/3	18/55	9/25	9/25	9/25	21/59	7/20	21/61	21/62	1/3	29/83	9/25	9/25	24/67	6/17	8/23	12/35	24/71	31/91	9/25	9/25	9/25
18	1/3	9/28	9/29	3/10	5/17	9/26	9/26	9/26	12/35	1/3	12/37	6/19	4/13	19/60	9/26	9/26	9/26	15/44	1/3	15/46	15/47	5/16	1/3	9/26	9/26	9/26	18/53	1/3	18/55	9/28	6/19	9/26	9/26	9/26	21/61	21/62	1/3	21/64	21/65	14/43	9/26	9/26	9/26	12/35	24/71	1/3	24/73	12/37	32/95	9/26
19	9/28	9/29	3/10	9/31	15/53	1/3	1/3	1/3	1/3	12/37	6/19	4/13	3/10	13/43	1/3	1/3	1/3	1/3	15/46	15/47	5/16	9/29	9/29	1/3	1/3	1/3	1/3	18/55	9/28	6/19	9/29	18/59	1/3	1/3	1/3	1/3	21/64	21/65	7/22	21/67	30/97	1/3	1/3	1/3	1/3	24/73	12/37	8/25	6/19	24/77
20	1/3	1/3	16/53	9/32	2/7	9/28	12/37	1/3	1/3	1/3	4/13	13/42	13/42	23/72	1/3	1/3	1/3	9/28	15/47	8/25	8/25	17/52	1/3	1/3	1/3	9/28	9/28	19/58	19/58	1/3	1/3	1/3	26/83	9/28	9/28	19/58	22/67	1/3	1/3	1/3	11/35	8/25	23/72	29/89	1/3	1/3	1/3	17/53	25/78	13/40
21	11/31	11/31	17/55	2/7	11/36	12/37	13/38	11/31	11/31	11/31	19/63	13/43	7/22	1/3	8/23	11/31	11/31	12/35	9/29	16/51	17/52	18/53	19/54	11/31	11/31	1/3	9/29	19/59	1/3	21/61	11/31	11/31	11/31	14/43	7/22	22/67	23/68	8/23	11/31	11/31	11/31	15/47	12/37	1/3	13/38	27/77	11/31	11/31	26/75	26/81
22	3/8	3/8	6/19	8/29	12/37	13/38	14/39	3/8	3/8	3/8	21/65	7/22	1/3	8/23	17/47	3/8	3/8	3/8	24/73	17/52	18/53	19/54	4/11	3/8	3/8	3/8	1/3	1/3	21/61	11/31	23/63	3/8	3/8	3/8	30/89	23/68	8/23	5/14	26/71	3/8	3/8	3/8	33/97	13/38	27/77	14/39	29/79	3/8	3/8	3/8
23	3/8	4/11	19/59	4/15	20/61	14/39	3/8	3/8	3/8	15/41	23/67	5/17	8/23	17/47	3/8	3/8	3/8	18/49	9/25	6/19	19/54	4/11	3/8	3/8	3/8	7/19	21/58	1/3	11/31	23/63	3/8	3/8	3/8	24/65	4/11	8/23	5/14	26/71	3/8	3/8	3/8	27/73	27/74	9/25	14/39	29/79	3/8	3/8	3/8	10/27
24	4/11	6/17	20/61	17/62	20/63	3/8	3/8	3/8	15/41	5/14	15/43	11/35	23/71	3/8	3/8	3/8	18/49	9/25	6/17	9/26	26/79	3/8	3/8	3/8	7/19	21/58	21/59	7/20	1/3	3/8	3/8	3/8	24/65	4/11	24/67	6/17	8/23	3/8	3/8	3/8	27/73	27/74	9/25	27/76	27/77	3/8	3/8	3/8	10/27	15/41
25	6/17	12/35	1/3	9/32	4/13	4/11	4/11	4/11	5/14	15/43	15/44	1/3	22/73	13/37	4/11	4/11	9/25	6/17	9/26	18/53	1/3	14/41	4/11	4/11	21/58	21/59	7/20	21/61	21/62	1/3	4/11	4/11	4/11	24/67	6/17	8/23	12/35	24/71	4/11	4/11	4/11	9/25	27/76	27/77	9/26	27/79	27/76	4/11	4/11	30/83
26	12/35	1/3	12/37	19/66	20/67	6/17	6/17	6/17	15/43	15/44	1/3	15/46	23/75	25/76	6/17	6/17	6/17	9/26	18/53	1/3	18/55	9/28	6/17	6/17	6/17	7/20	21/61	21/62	1/3	21/64	1/3	6/17	6/17	6/17	8/23	12/35	24/71	1/3	24/73	6/17	6/17	6/17	27/77	9/26	27/79	27/80	1/3	33/98	6/17	6/17
27	1/3	12/37	6/19	5/17	20/69	12/35	12/35	12/35	15/44	1/3	15/46	15/47	5/16	27/86	12/35	12/35	12/35	18/53	1/3	18/55	9/28	19/59	12/37	12/35	12/35	12/35	21/62	1/3	21/64	12/37	12/37	1/3	12/35	12/35	12/35	24/71	1/3	24/73	12/37	8/25	12/35	12/35	12/35	27/79	27/80	1/3	27/82	27/83	9/28	12/35
28	13/38	13/38	4/13	3/10	13/43	1/3	1/3	13/38	13/38	13/38	15/47	5/16	16/51	29/88	18/53	13/38	13/38	1/3	18/55	19/58	19/58	1/3	13/38	13/38	13/38	1/3	1/3	1/3	1/3	23/68	13/38	13/38	1/3	1/3	1/3	25/74	25/74	13/38	13/38	13/38	27/85	1/3	1/3	33/98	28/83	13/38	13/38	13/38	14/43	29/88
29	14/39	14/39	22/71	12/41	7/22	1/3	8/23	14/39	14/39	14/39	5/16	16/51	17/52	18/53	19/54	14/39	14/39	15/43	9/28	19/59	1/3	21/61	11/31	14/39	14/39	16/47	12/37	22/67	23/68	8/23	5/14	14/39	14/39	1/3	12/37	1/3	13/38	27/77	14/39	14/39	14/39	26/81	27/82	28/83	29/84	6/17	14/39	14/39	14/39	29/89
30	3/8	3/8	23/73	2/7	1/3	8/23	17/47	3/8	3/8	3/8	26/81	25/82	18/53	19/54	4/11	3/8	3/8	3/8	29/89	1/3	21/61	11/31	23/63	3/8	3/8	3/8	32/97	23/68	8/23	5/14	26/71	3/8	3/8	3/8	13/38	27/77	14/39	29/79	3/8	3/8	3/8	28/83	29/84	6/17	31/86	32/87	3/8	3/8	3/8
31	3/8	15/41	8/25	12/43	25/77	17/47	3/8	3/8	3/8	18/49	28/83	17/57	29/85	4/11	3/8	3/8	3/8	7/19	32/91	22/71	11/31	23/63	3/8	3/8	3/8	24/65	4/11	8/25	5/14	26/71	3/8	3/8	3/8	27/73	27/74	27/83	14/39	29/79	3/8	3/8	3/8	10/27	15/41	29/85	31/86	32/87	3/8	3/8	3/8	33/89
32	15/41	5/14	25/77	11/39	25/79	3/8	3/8	3/8	18/49	9/25	6/17	13/43	28/87	3/8	3/8	3/8	7/19	21/58	21/59	31/94	31/95	3/8	3/8	3/8	24/65	4/11	24/67	6/17	32/97	3/8	3/8	3/8	27/73	27/74	9/25	27/76	32/97	3/8	3/8	3/8	10/27	15/41	30/83	5/14	6/17	3/8	3/8	3/8	33/89	11/30
33	5/14	15/43	26/79	11/40	25/81	15/41	15/41	15/41	9/25	6/17	9/26	7/22	27/89	16/45	15/41	15/41	21/58	21/59	7/20	21/61	11/35	17/49	15/41	15/41	4/11	24/67	6/17	8/23	12/35	18/53	15/41	15/41	27/74	9/25	27/76	27/77	9/26	26/79	15/41	15/41	15/41	30/83	5/14	6/17	15/43	10/29	16/45	15/41	23/63	33/91
34	15/43	15/44	1/3	23/82	25/83	5/14	5/14	5/14	6/17	9/26	18/53	1/3	4/13	31/92	5/14	5/14	21/59	7/20	21/61	21/62	1/3	23/71	5/14	5/14	5/14	6/17	8/23	12/35	24/71	1/3	23/66	5/14	5/14	27/76	27/77	9/26	27/79	27/80	1/3	5/14	5/14	5/14	6/17	15/43	10/29	15/44	30/89	23/66	31/87	31/87
35	15/44	1/3	15/46	2/7	3/10	15/43	15/43	15/43	9/26	18/53	1/3	18/55	31/99	11/34	15/43	15/43	15/43	21/61	21/62	1/3	21/64	22/67	18/53	15/43	15/43	8/23	12/35	24/71	1/3	1/3	1/3	15/43	15/43	15/43	9/26	27/79	27/80	1/3	1/3	15/43	15/43	15/43	10/29	15/44	30/89	1/3	30/91	18/53	31/89
36	8/23	8/23	15/47	25/86	16/51	15/44	15/44	8/23	8/23	8/23	18/55	9/28	19/59	33/98	21/61	8/23	8/23	21/62	1/3	21/64	22/67	19/56	8/23	8/23	8/23	15/44	24/71	25/74	25/74	13/38	8/23	8/23	15/44	24/71	25/74	13/38	8/23	8/23	15/44	14/41	14/41	29/84	8/23	8/23	32/97	15/44	15/44	31/90	31/90	8/23
37	17/47	17/47	5/16	13/44	17/52	18/53	19/54	17/47	17/47	17/47	9/28	6/19	1/3	21/61	11/31	17/47	17/47	6/17	21/64	22/67	23/68	8/23	5/14	17/47	17/47	19/55	1/3	1/3	13/38	27/77	14/39	17/47	17/47	20/59	1/3	28/83	29/84	6/17	31/86	17/47	17/47	1/3	1/3	31/91	8/23	11/31	17/47	17/47	17/47	32/97
38	3/8	3/8	28/89	3/10	30/91	19/54	4/11	3/8	3/8	3/8	31/97	31/98	21/61	11/31	23/63	3/8	3/8	3/8	23/71	17/53	8/23	5/14	26/71	3/8	3/8	3/8	19/58	13/38	27/77	14/39	29/79	3/8	3/8	3/8	32/97	29/84	6/17	31/86	32/87	3/8	3/8	3/8	30/91	8/23	11/31	17/47	7/19	3/8	3/8	3/8
39	3/8	18/49	29/91	5/17	10/31	4/11	3/8	3/8	3/8	7/19	1/3	22/71	33/98	23/63	3/8	3/8	3/8	24/65	28/81	17/54	23/66	26/71	3/8	3/8	3/8	27/73	31/87	15/47	14/39	29/79	3/8	3/8	3/8	10/27	15/41	10/31	31/86	32/87	3/8	3/8	3/8	33/89	11/30	1/3	17/47	7/19	3/8	3/8	3/8	36/97
40	18/49	9/25	10/31	15/52	6/19	3/8	3/8	3/8	7/19	21/58	26/75	16/51	25/78	3/8	3/8	3/8	24/65	4/11	24/67	7/22	12/37	3/8	3/8	3/8	27/73	27/74	9/25	20/59	20/61	3/8	3/8	3/8	10/27	15/41	30/83	5/14	32/97	3/8	3/8	3/8	33/89	11/30	33/91	33/92	12/37	3/8	3/8	3/8	36/97	18/49
41	9/25	6/17	31/95	15/53	30/97	18/49	18/49	18/49	21/58	21/59	7/20	4/13	11/35	19/53	18/49	18/49	4/11	24/67	6/17	19/56	29/92	20/57	18/49	18/49	27/74	9/25	27/76	27/77	29/90	21/61	18/49	18/49	15/41	30/83	5/14	6/17	15/43	20/61	18/49	18/49	11/30	33/91	33/92	11/31	33/94	31/95	18/49	18/49	18/49	4/11
42	6/17	9/26	32/97	2/7	10/33	9/25	9/25	9/25	21/59	7/20	21/61	17/53	27/85	25/73	9/25	9/25	24/67	6/17	8/23	12/35	28/87	19/58	9/25	9/25	9/25	27/76	27/77	9/26	27/79	32/97	9/25	9/25	9/25	5/14	6/17	15/43	10/29	15/44	25/73	9/25	9/25	33/92	11/31	33/94	33/95	11/32	32/97	9/25	9/25	9/25
43	9/26	18/53	1/3	25/91	9/29	6/17	6/17	6/17	7/20	21/61	21/62	1/3	26/81	32/97	6/17	6/17	6/17	8/23	12/35	24/71	1/3	1/3	6/17	6/17	6/17	27/77	9/26	27/79	27/80	28/83	18/53	6/17	6/17	6/17	15/43	10/29	15/44	18/53	18/53	6/17	6/17	6/17	33/94	33/95	11/32	33/97	18/53	1/3	6/17	6/17
44	19/54	19/54	18/55	18/65	19/59	9/26	9/26	19/54	19/54	19/54	1/3	21/64	22/67	27/79	8/23	19/54	19/54	12/35	24/71	1/3	1/3	13/38	27/77	19/54	19/54	9/26	27/79	27/80	28/83	29/84	19/54	19/54	19/54	9/26	10/29	31/90	31/90	8/23	19/54	19/54	9/26	9/26	9/26	17/49	17/49	7/20	19/54	19/54	32/97	9/26
45	4/11	4/11	9/28	24/85	1/3	21/61	11/31	4/11	4/11	4/11	21/64	21/65	23/68	8/23	5/14	4/11	4/11	19/55	1/3	1/3	13/38	27/77	14/39	4/11	4/11	18/53	27/80	28/83	29/84	6/17	31/86	4/11	4/11	18/53	18/53	31/91	8/23	11/31	17/47	4/11	4/11	18/53	18/53	34/99	7/20	31/87	33/91	4/11	4/11	1/3
46	3/8	3/8	6/19	2/7	9/28	11/31	23/63	3/8	3/8	3/8	21/65	7/22	8/23	5/14	26/71	3/8	3/8	3/8	24/73	20/61	27/77	14/39	29/79	3/8	3/8	3/8	1/3	27/82	6/17	31/86	32/87	3/8	3/8	3/8	1/3	8/23	11/31	17/47	7/19	3/8	3/8	3/8	1/3	7/20	31/87	33/91	31/84	3/8	3/8	3/8
47	3/8	7/19	27/85	17/59	11/35	23/63	3/8	3/8	3/8	24/65	12/37	21/67	1/3	26/71	3/8	3/8	3/8	27/73	14/41	8/25	29/86	29/79	3/8	3/8	3/8	10/27	31/90	27/83	15/43	32/87	3/8	3/8	3/8	33/89	16/45	18/55	17/47	7/19	3/8	3/8	3/8	36/97	18/49	4/11	9/25	1/99	3/8	3/8	3/8	13/35
48	7/19	21/58	21/67	3/10	23/74	3/8	3/8	3/8	24/65	4/11	27/79	21/68	29/92	3/8	3/8	3/8	27/73	27/74	9/25	25/78	25/78	3/8	3/8	3/8	10/27	15/41	30/83	14/43	14/43	3/8	3/8	3/8	33/89	11/30	33/91	27/79	1/99	3/8	3/8	3/8	36/97	18/49	4/11	9/25	1/99	3/8	3/8	3/8	13/35	32/87
49	21/58	21/59	15/47	18/61	25/82	19/53	7/19	7/19	4/11	24/67	6/17	7/23	29/94	20/57	7/19	7/19	27/74	9/25	27/76	12/37	8/25	21/61	7/19	7/19	15/41	30/83	5/14	6/17	19/58	29/89	7/19	7/19	11/30	33/91	33/92	11/31	12/37	25/77	7/19	7/19	18/49	4/11	9/25	31/87	6/17	19/59	7/19	7/19	32/87	35/96
50	21/59	7/20	28/87	9/31	4/13	32/91	21/58	30/83	24/67	6/17	8/23	11/36	23/73	26/75	30/83	21/58	9/25	27/76	27/77	9/26	13/40	1/3	21/58	21/58	30/83	5/14	6/17	15/43	32/97	1/3	21/58	21/58	21/58	33/92	11/31	33/94	33/95	1/3	10/29	21/58	21/58	9/25	31/87	6/17	29/83	9/26	1/3	21/58	21/58	13/36

Table. Lower bounds on $\overline{a}(S)$ for $S = \{3, 4, 5, 5+k, 5+k+i\}$.

4 Graphs for Conjectured Values

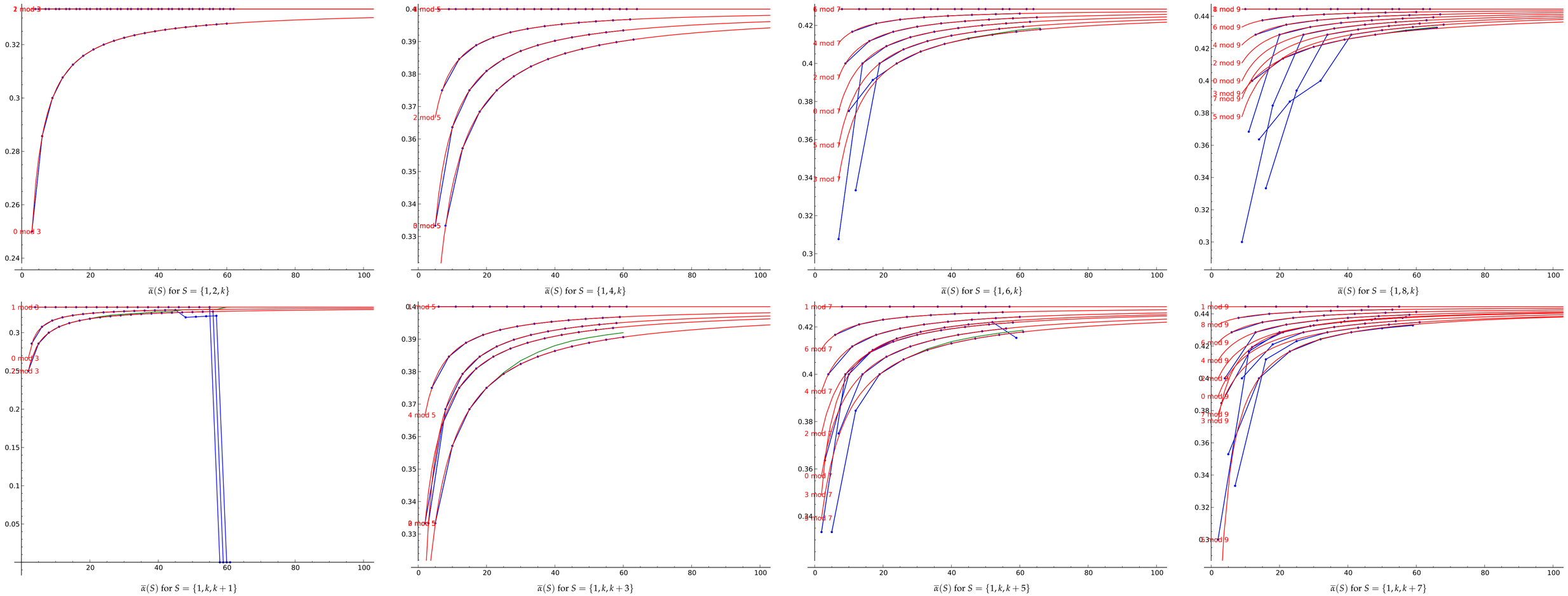

Figure 1: Plots of conjectured values of $\overline{\alpha}(S)$.