

Table 1: SCIP Solver no symmetry Knapsack instances

Name	original	$(\ell = 5)$	$(\ell = 4)$	$(\ell = 3)$	$(\ell = 2)$
	time	time	time	time	time
300	3600.0	1410.37	90.75	3140.94	78.78
300	3600.0	3600.0	94.14	3600.0	75.99
300	3600.0	1329.91	98.67	1573.77	79.04
300	3600.0	1443.49	97.88	1384.21	81.83
300	3600.0	1419.92	88.39	3600.0	76.58
301	3600.0	3600.0	3600.0	84.27	96.44
301	3600.0	3600.0	3600.0	81.96	106.0
301	3600.0	3600.0	3600.0	78.89	108.42
301	3600.0	3600.0	3600.0	88.72	96.54
301	3600.0	3600.0	3600.0	88.88	83.61
302	3600.0	3600.0	91.29	160.49	132.19
302	3600.0	3600.0	93.06	131.53	113.24
302	3600.0	3600.0	96.99	139.3	116.26
302	3600.0	3600.0	96.33	155.72	113.98
302	3600.0	3600.0	93.83	137.39	127.72
303	3600.0	3600.0	125.72	3600.0	318.76
303	3600.0	3600.0	129.66	3600.0	89.39
303	3600.0	3600.0	122.05	3600.0	132.5
303	3600.0	3600.0	130.45	3600.0	127.53
303	3600.0	3600.0	126.6	3600.0	96.83
304	3600.0	3600.0	3600.0	74.28	29.32
304	3600.0	3600.0	3600.0	79.1	29.43
304	3600.0	3600.0	3600.0	74.05	29.18
304	3600.0	3600.0	3600.0	77.75	29.23
304	3600.0	3600.0	3600.0	75.06	29.43
305	3600.0	3600.0	3600.0	227.06	111.45
305	3600.0	3600.0	3600.0	237.84	108.46
305	3600.0	3600.0	3600.0	235.55	114.22
305	3600.0	3600.0	3600.0	241.27	109.17
305	3600.0	3600.0	3600.0	225.41	112.09
306	3600.0	113.37	88.42	78.51	119.19
306	3600.0	104.15	125.9	75.27	105.68
306	3600.0	111.46	87.48	74.69	116.59
306	3600.0	96.61	130.06	73.21	112.33
306	3600.0	103.54	78.78	78.45	119.84
307	57.67	112.22	663.54	77.02	220.75
307	61.13	3600.0	254.74	74.23	212.25
307	60.71	110.24	610.85	78.64	224.39

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Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
307	61.32	111.35	670.67	75.69	223.99
307	59.9	3600.0	1100.8	73.65	211.99
308	3600.0	3600.0	155.13	147.07	158.92
308	3600.0	3600.0	3376.66	168.84	149.86
308	3600.0	385.23	290.29	142.67	158.6
308	3600.0	490.29	808.24	144.99	164.41
308	3600.0	3600.0	213.47	159.2	165.33
309	3600.0	389.3	3600.0	76.73	63.6
309	3600.0	385.45	3600.0	73.12	69.91
309	3600.0	336.46	3600.0	74.43	69.81
309	3600.0	305.67	410.91	76.84	69.85
309	3600.0	316.83	458.63	76.75	70.83
310	106.37	98.81	166.79	65.22	264.99
310	247.29	100.8	158.11	70.18	254.13
310	107.46	99.17	159.02	83.74	252.09
310	245.81	99.16	99.12	88.23	259.62
310	194.58	98.11	108.61	85.8	257.84
311	3600.0	204.64	690.06	3600.0	90.49
311	3600.0	504.86	668.99	257.8	86.03
311	3600.0	110.19	427.6	264.33	93.21
311	3600.0	103.75	834.05	303.09	83.91
311	3600.0	127.41	418.33	178.67	89.01
312	3600.0	112.5	146.54	3037.8	91.05
312	3600.0	125.03	149.05	426.48	95.09
312	3600.0	122.23	136.76	3600.0	92.66
312	3600.0	109.29	146.7	2217.8	93.14
312	3600.0	189.1	146.66	612.55	94.65
313	212.37	393.44	227.25	290.41	118.92
313	126.11	3600.0	165.29	395.5	117.11
313	216.44	384.24	3600.0	285.71	114.72
313	253.06	506.17	3600.0	283.23	122.55
313	123.6	373.33	194.52	650.05	116.02
314	87.3	73.27	128.56	162.07	115.39
314	91.37	74.7	126.88	199.27	119.25
314	87.85	78.05	126.82	167.58	122.54
314	88.86	70.35	126.04	132.04	116.08
314	86.29	70.8	127.95	174.13	118.65
315	137.95	266.62	132.1	153.34	78.7
315	138.8	249.36	130.27	154.83	79.34
315	136.67	257.62	147.21	154.6	72.47

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
315	139.51	244.41	148.68	144.22	80.11
315	138.31	280.1	141.11	157.14	78.01
316	2848.75	3600.0	3600.0	196.65	112.22
316	2625.89	3600.0	3600.0	191.5	108.5
316	2594.96	3600.0	3600.0	194.66	115.53
316	2816.23	3600.0	3600.0	194.45	113.07
316	2884.98	3600.0	3600.0	191.0	111.05
317	3600.0	3600.0	3600.0	88.25	3600.0
317	3600.0	3600.0	3600.0	62.51	3600.0
317	3600.0	237.15	3600.0	90.71	3600.0
317	3600.0	690.05	3600.0	88.92	3600.0
317	3600.0	2588.28	3152.86	64.52	3600.0
318	0.65	3600.0	3600.0	44.92	103.8
318	0.66	3600.0	3600.0	45.05	101.44
318	0.71	3600.0	1091.2	45.13	103.34
318	0.72	3600.0	3600.0	45.36	102.21
318	0.72	3600.0	3600.0	44.92	107.49
319	3600.0	108.41	3600.0	3600.0	78.55
319	3600.0	107.47	2402.83	3600.0	76.05
319	3600.0	105.21	1034.1	3600.0	76.87
319	3600.0	108.84	1768.61	3600.0	76.57
319	3600.0	106.82	109.02	3600.0	73.6
320	3600.0	3600.0	3600.0	426.53	917.21
320	3600.0	3600.0	3600.0	423.41	1166.23
320	3600.0	3600.0	3600.0	436.92	1009.34
320	3600.0	3600.0	3600.0	439.08	902.83
320	3600.0	3600.0	3600.0	437.85	811.67
321	3600.0	3600.0	292.43	281.76	256.59
321	3600.0	3600.0	296.9	281.25	257.9
321	3600.0	3600.0	321.81	284.34	253.03
321	3600.0	3600.0	289.23	281.0	253.85
321	3600.0	3600.0	282.05	285.43	258.06
322	3600.0	246.59	3600.0	195.18	155.76
322	3600.0	251.85	3600.0	203.71	158.36
322	3600.0	247.56	3600.0	201.32	155.57
322	3600.0	197.19	3600.0	196.58	158.31
322	317.81	246.23	3600.0	195.6	148.06
323	3600.0	1120.97	373.92	297.65	483.08
323	3600.0	180.69	361.55	300.84	609.74
323	3600.0	1337.39	365.19	292.24	423.98

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Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
323	3600.0	898.19	342.74	302.18	454.49
323	3600.0	219.6	360.89	301.21	1732.85
324	3600.0	3600.0	3600.0	1921.7	3600.0
324	3600.0	3600.0	3600.0	3600.0	3600.0
324	3600.0	3600.0	3600.0	3600.0	3600.0
324	3600.0	3600.0	3600.0	3600.0	3600.0
324	3600.0	3600.0	3600.0	3600.0	3600.0
325	3600.0	132.36	231.89	956.06	85.77
325	3600.0	131.34	232.48	852.78	91.31
325	3600.0	131.91	229.33	575.22	92.11
325	3600.0	132.39	218.68	543.6	94.17
325	3600.0	131.97	224.13	1222.76	92.07
326	318.72	89.99	3600.0	3600.0	161.52
326	306.91	89.64	3600.0	3600.0	154.08
326	313.29	90.23	3600.0	3600.0	157.32
326	318.63	91.13	3600.0	1855.32	159.55
326	307.1	89.97	3600.0	3600.0	157.94
327	3600.0	517.63	1640.74	692.97	213.49
327	3600.0	3600.0	2529.49	350.63	211.11
327	3600.0	478.52	2564.35	346.61	211.32
327	3600.0	574.02	1397.41	347.99	211.91
327	3600.0	499.19	3600.0	418.11	200.74
328	3600.0	882.46	160.56	242.56	428.31
328	3600.0	856.47	162.98	240.76	426.62
328	3600.0	885.63	156.72	245.5	432.99
328	3600.0	842.12	158.79	226.06	427.11
328	3600.0	876.67	160.6	529.17	415.42
329	179.12	3600.0	2204.2	196.54	181.24
329	187.56	3600.0	2266.24	201.32	187.78
329	1483.78	3600.0	1816.75	197.82	187.92
329	1232.61	1965.22	1611.71	193.39	186.57
329	1025.24	3600.0	1975.81	185.77	186.84
330	142.93	207.35	354.87	183.88	61.98
330	140.54	284.79	349.91	171.77	55.67
330	145.12	240.53	349.07	173.21	55.75
330	143.34	182.69	357.66	181.45	63.23
330	153.12	317.73	355.76	251.29	56.44
331	279.74	290.01	519.41	721.29	291.7
331	317.36	288.55	804.57	617.1	309.07
331	440.0	272.64	808.2	2172.22	310.19

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
331	314.53	284.47	1000.63	229.04	304.8
331	357.65	292.41	155.35	660.62	294.98
332	3600.0	404.58	342.05	583.62	206.83
332	3600.0	272.87	290.17	3600.0	208.03
332	3600.0	271.14	303.94	3600.0	209.06
332	3600.0	215.96	329.1	3600.0	195.85
332	3600.0	282.12	505.71	3600.0	208.13
333	3600.0	279.34	282.46	3600.0	924.42
333	3600.0	320.74	279.87	3600.0	881.45
333	3600.0	277.65	271.57	3600.0	903.3
333	3600.0	273.65	302.61	3600.0	898.12
333	3600.0	271.76	399.68	3600.0	939.93
334	222.06	597.79	235.24	450.03	3600.0
334	2199.37	3600.0	235.02	562.37	3600.0
334	186.58	495.29	232.86	456.56	3600.0
334	189.0	592.82	233.51	440.31	3600.0
334	197.73	482.49	220.95	514.45	3600.0
335	172.6	527.42	615.07	119.47	328.46
335	169.92	678.64	677.08	119.14	340.12
335	174.36	572.63	503.21	139.83	433.79
335	175.08	572.53	530.42	119.13	414.58
335	171.04	684.5	579.11	121.26	372.34
336	3600.0	213.75	199.39	224.27	302.38
336	3600.0	212.69	199.85	229.69	298.15
336	3600.0	210.14	190.79	231.61	307.69
336	3600.0	214.01	196.95	225.74	306.97
336	3600.0	214.73	192.43	227.52	304.67
337	3600.0	3600.0	1085.07	3600.0	1.13
337	3600.0	3600.0	557.1	3600.0	1.17
337	3600.0	3600.0	1325.53	3600.0	1.08
337	3600.0	3600.0	1833.49	3600.0	1.11
337	3600.0	3600.0	3065.4	3600.0	1.1
338	3600.0	773.52	378.13	3600.0	17.04
338	3600.0	771.65	583.75	1033.27	16.98
338	3600.0	2435.76	308.02	726.39	16.6
338	3600.0	2518.34	1990.01	3600.0	17.07
338	3600.0	729.9	374.6	1695.75	17.12
339	3600.0	313.74	249.46	291.68	164.25
339	575.1	311.92	251.52	278.27	178.92
339	1363.65	312.96	236.98	277.74	177.18

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
339	3600.0	308.86	255.04	289.52	176.95
339	3600.0	309.54	249.71	293.3	176.65
340	3600.0	3600.0	3600.0	366.17	347.42
340	3600.0	3600.0	1754.84	361.23	372.12
340	3600.0	3600.0	3600.0	422.47	358.74
340	3600.0	3600.0	740.95	366.56	373.9
340	3600.0	3600.0	3600.0	417.55	373.51
341	3600.0	3600.0	3600.0	3600.0	553.6
341	3600.0	3600.0	3600.0	3600.0	542.23
341	3600.0	3600.0	3600.0	3600.0	3600.0
341	3600.0	3600.0	3600.0	3600.0	563.89
341	3600.0	3600.0	3600.0	3600.0	537.75
342	3600.0	3600.0	413.4	3600.0	431.6
342	3600.0	3600.0	415.07	3600.0	444.8
342	3600.0	3600.0	419.22	913.17	429.67
342	3600.0	3600.0	412.93	969.96	438.14
342	3600.0	3600.0	406.59	3600.0	448.33
343	3600.0	1369.84	423.28	727.85	3600.0
343	3600.0	3600.0	419.41	732.68	3600.0
343	3600.0	3600.0	434.01	669.54	3600.0
343	3600.0	2063.95	435.2	3600.0	3600.0
343	3600.0	3600.0	427.35	3600.0	3600.0
344	3600.0	236.25	3600.0	3600.0	3600.0
344	3600.0	227.22	2081.7	3600.0	3600.0
344	3600.0	240.34	419.74	3600.0	3600.0
344	3600.0	223.79	2594.2	3600.0	3600.0
344	3600.0	234.87	3600.0	3600.0	3600.0
345	3600.0	3600.0	3600.0	430.12	54.28
345	3600.0	3600.0	1386.39	372.82	54.42
345	3600.0	3600.0	3600.0	369.41	55.04
345	3600.0	1285.81	3600.0	372.84	54.17
345	3600.0	3600.0	1506.02	436.53	54.25
346	3600.0	3600.0	233.87	546.13	403.89
346	3600.0	3600.0	285.87	553.52	406.35
346	3600.0	3600.0	325.67	558.83	429.6
346	3600.0	3600.0	294.43	560.69	407.62
346	3600.0	3600.0	245.97	560.66	392.91
347	3600.0	3600.0	2753.09	341.6	52.77
347	3600.0	3600.0	734.62	404.65	42.73
347	3600.0	3600.0	3600.0	1014.09	42.4

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
347	3600.0	3600.0	3600.0	324.32	52.8
347	3600.0	3600.0	805.94	335.12	32.9
348	3600.0	668.02	1580.9	597.24	279.6
348	3600.0	727.0	1186.31	1056.69	367.77
348	3600.0	935.17	679.29	3600.0	276.77
348	3600.0	3600.0	1845.92	2945.31	279.45
348	3600.0	816.59	1109.38	2017.11	315.85
349	3600.0	558.87	325.1	347.01	737.85
349	3600.0	649.07	308.99	438.1	766.92
349	3600.0	641.25	334.84	362.06	733.4
349	3600.0	596.97	321.44	366.47	756.91
349	3600.0	503.83	341.19	353.72	738.37
350	3600.0	3600.0	404.77	399.64	613.35
350	3600.0	531.59	396.42	571.85	617.94
350	3600.0	3600.0	405.89	293.5	376.02
350	3600.0	3600.0	395.26	578.03	629.14
350	3600.0	3600.0	398.95	285.11	598.03
351	350.92	232.13	2910.79	475.53	716.63
351	344.26	263.26	2622.96	372.85	532.19
351	364.0	235.07	1968.64	354.78	435.89
351	516.12	238.27	1074.68	444.64	1245.8
351	341.03	270.42	3600.0	364.91	530.52
352	3600.0	257.59	3600.0	338.87	360.75
352	3600.0	244.02	3600.0	3011.59	359.71
352	3600.0	252.34	3600.0	344.47	381.91
352	3600.0	246.15	3600.0	336.3	363.85
352	3600.0	256.44	3600.0	1915.49	330.78
353	3600.0	3600.0	3600.0	3600.0	3282.34
353	3600.0	3600.0	3600.0	3600.0	2498.38
353	3600.0	3600.0	3600.0	3600.0	3600.0
353	3600.0	3600.0	3600.0	3600.0	3600.0
353	3600.0	3600.0	3600.0	3600.0	2000.52
354	204.95	973.14	365.51	244.84	87.64
354	204.31	900.42	375.71	232.2	88.07
354	209.54	1328.13	406.79	247.88	234.02
354	205.81	952.41	375.21	243.51	138.68
354	203.57	1445.07	356.74	239.99	238.74
355	215.66	377.2	3600.0	334.55	300.67
355	218.36	329.45	3600.0	321.92	299.8
355	218.19	289.15	3600.0	308.12	309.72

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
355	212.88	322.81	1595.27	345.45	310.2
355	215.46	330.3	929.83	327.32	312.84
356	3600.0	3600.0	711.37	635.96	387.7
356	3600.0	3600.0	3600.0	1143.68	400.23
356	3600.0	972.05	1170.25	888.75	399.21
356	3600.0	2368.73	863.89	2082.98	397.53
356	3600.0	2040.44	987.76	2508.6	390.36
357	3600.0	3600.0	680.92	3600.0	305.31
357	3600.0	3600.0	412.5	3600.0	395.34
357	3600.0	3600.0	433.59	3600.0	306.22
357	3600.0	3600.0	691.22	3600.0	386.01
357	3600.0	3600.0	290.26	3600.0	438.42
358	257.37	293.43	290.39	392.98	139.37
358	256.03	292.04	295.54	383.51	138.65
358	256.35	281.39	285.3	400.11	136.63
358	255.95	286.34	284.14	387.48	138.49
358	257.13	287.98	295.5	383.79	138.05
359	3600.0	3600.0	322.69	295.86	3600.0
359	3600.0	3600.0	230.37	294.57	3600.0
359	3600.0	3600.0	264.03	475.8	3600.0
359	3600.0	3600.0	306.23	280.05	3600.0
359	3600.0	3600.0	270.52	324.95	3600.0
360	3600.0	3600.0	1202.79	3600.0	393.88
360	3600.0	3600.0	1139.59	3600.0	393.26
360	3600.0	3600.0	1175.97	3600.0	404.11
360	3600.0	3600.0	1135.72	3600.0	383.47
360	3600.0	3600.0	1199.99	3600.0	393.5
361	3600.0	3600.0	3600.0	621.82	325.46
361	3600.0	3600.0	3600.0	614.77	377.8
361	3600.0	3600.0	3600.0	612.63	308.99
361	3600.0	3600.0	3600.0	624.62	359.39
361	3600.0	3600.0	3600.0	628.37	352.24
362	3600.0	3600.0	1117.5	135.57	484.9
362	3600.0	3600.0	500.65	136.37	483.8
362	3600.0	3600.0	531.89	136.71	491.8
362	3600.0	3600.0	657.5	136.37	473.65
362	3600.0	3600.0	501.9	136.68	471.22
363	450.7	3531.19	3600.0	429.18	29.33
363	454.17	862.39	407.42	447.51	29.21
363	565.65	967.15	688.48	447.81	29.91

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
363	463.92	1207.19	621.93	427.16	30.01
363	460.8	544.11	1173.65	438.65	29.55
364	3600.0	2645.78	276.03	892.96	569.02
364	3600.0	2640.48	987.84	827.43	579.31
364	3600.0	2887.64	652.28	1235.29	573.74
364	3600.0	2868.88	440.04	3600.0	574.71
364	3600.0	2629.42	3600.0	731.53	561.97
365	3600.0	1955.64	3600.0	1759.98	3600.0
365	3600.0	3600.0	3600.0	984.86	3600.0
365	3600.0	3600.0	3600.0	981.42	3600.0
365	3600.0	3600.0	3600.0	2733.51	3600.0
365	3600.0	3600.0	3600.0	1164.42	3600.0
366	3600.0	3600.0	726.87	1917.16	570.95
366	3600.0	3600.0	715.17	1938.51	573.68
366	3600.0	3600.0	742.93	1946.9	568.7
366	3600.0	3600.0	791.83	1917.34	556.61
366	3600.0	3600.0	724.57	1890.84	556.42
367	3600.0	1305.46	954.68	3600.0	645.23
367	3600.0	460.26	959.28	3600.0	3600.0
367	3600.0	1303.45	966.28	3600.0	3600.0
367	3600.0	1026.8	946.75	3600.0	3600.0
367	3600.0	596.4	951.26	3600.0	3600.0
368	3600.0	3600.0	3600.0	1485.06	3600.0
368	3600.0	3600.0	3600.0	1446.3	3600.0
368	3600.0	3600.0	3600.0	1474.03	3600.0
368	3600.0	3600.0	3600.0	1480.06	3600.0
368	3600.0	3600.0	3600.0	1481.36	3600.0
369	3600.0	667.47	1530.28	1282.9	341.53
369	3600.0	348.02	1530.25	1576.79	341.54
369	3600.0	346.01	1427.84	1113.29	332.5
369	3600.0	1876.93	1431.03	1955.31	342.19
369	3600.0	336.48	1474.71	1229.23	341.75
370	454.62	439.8	3576.4	1523.65	1285.97
370	3600.0	443.66	3600.0	871.19	1320.55
370	3600.0	454.29	3600.0	967.46	1282.48
370	479.15	448.04	3600.0	913.06	1272.86
370	3600.0	444.08	3022.61	1029.1	1287.79
371	3600.0	3600.0	2078.8	1379.88	842.28
371	3600.0	3600.0	3600.0	1020.49	829.19
371	3600.0	1068.76	3600.0	3600.0	810.38

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
371	3600.0	3600.0	2367.34	1129.95	838.16
371	3600.0	3600.0	2684.02	1418.59	845.53
372	3600.0	3600.0	3600.0	3600.0	1031.88
372	3600.0	3600.0	3600.0	3600.0	1027.92
372	3600.0	3600.0	3600.0	3600.0	1002.61
372	3600.0	3600.0	3600.0	3600.0	1011.46
372	3600.0	3600.0	3600.0	3600.0	1019.99
373	3600.0	341.41	3600.0	3600.0	3600.0
373	3600.0	567.95	3600.0	3600.0	1353.64
373	3600.0	346.72	3600.0	3600.0	3600.0
373	3600.0	341.09	3600.0	3600.0	1276.6
373	3600.0	346.34	3600.0	3600.0	3600.0
374	1143.27	627.25	682.89	470.04	469.3
374	1157.51	624.51	681.25	471.63	531.35
374	1141.58	625.14	693.93	473.52	702.89
374	947.44	602.14	648.53	481.11	1154.44
374	963.71	595.51	682.53	481.23	3600.0
375	461.4	3600.0	740.22	549.04	379.77
375	455.88	3600.0	1519.84	581.86	385.93
375	459.27	3600.0	693.85	602.48	381.25
375	467.79	3600.0	1759.92	632.88	370.16
375	466.71	3600.0	872.59	582.11	377.91
376	3600.0	475.79	368.88	626.02	762.74
376	3600.0	480.24	361.32	643.9	738.76
376	3600.0	475.47	366.74	628.48	756.23
376	3600.0	478.3	367.83	643.61	752.34
376	3600.0	470.11	360.15	651.22	731.4
377	3600.0	3600.0	391.63	3600.0	74.14
377	3600.0	3600.0	394.69	3600.0	73.6
377	3600.0	3600.0	389.18	3600.0	74.25
377	3600.0	3600.0	379.34	3600.0	73.98
377	3600.0	3600.0	391.14	3600.0	73.84
378	3600.0	3600.0	18.34	369.15	293.25
378	3600.0	3600.0	18.59	371.12	289.99
378	3600.0	3600.0	18.48	360.2	284.96
378	3600.0	3600.0	18.38	371.94	288.33
378	3600.0	3600.0	18.11	365.67	290.97
379	3600.0	3600.0	1605.85	172.16	845.81
379	3600.0	3600.0	1809.29	169.06	847.87
379	3600.0	2769.71	1310.1	171.92	845.51

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
379	3600.0	3600.0	1031.78	168.89	842.39
379	3600.0	3600.0	922.24	170.36	847.3
380	28.91	3.56	4.76	42.17	42.85
380	29.59	3.58	4.56	39.05	45.88
380	30.4	3.52	4.56	38.79	46.41
380	33.13	3.14	4.66	41.38	46.67
380	26.52	3.4	5.03	38.7	47.76
381	3600.0	3600.0	3600.0	35.2	87.24
381	3600.0	3600.0	3600.0	31.33	84.41
381	3600.0	3600.0	3600.0	34.61	88.07
381	3600.0	3600.0	3600.0	34.32	91.37
381	3600.0	3600.0	3600.0	37.39	88.35
382	3600.0	31.19	326.63	35.33	58.83
382	3600.0	53.14	257.56	33.93	59.2
382	3600.0	32.15	210.56	34.68	59.42
382	3600.0	30.31	247.65	34.94	61.3
382	3600.0	26.04	295.92	30.82	60.59
383	3600.0	57.59	65.07	0.34	7.14
383	3600.0	54.81	67.64	0.29	7.51
383	3600.0	63.52	67.7	0.39	7.49
383	3600.0	57.33	68.09	0.37	7.85
383	3600.0	56.97	60.05	0.32	7.86
384	3600.0	3600.0	69.4	23.43	2050.44
384	3600.0	3600.0	127.62	24.1	392.67
384	3600.0	3600.0	134.78	21.04	116.81
384	3600.0	3600.0	92.06	21.14	96.04
384	3600.0	3600.0	76.9	17.72	123.72
385	32.17	71.1	27.01	59.79	13.47
385	32.27	209.16	27.36	64.4	13.46
385	75.5	59.35	27.1	60.9	13.4
385	31.72	62.67	27.74	62.64	12.89
385	31.83	157.13	24.31	63.05	14.07
386	3600.0	155.27	54.38	51.93	55.5
386	3600.0	3600.0	48.07	86.59	51.61
386	3600.0	3600.0	52.24	72.25	52.07
386	3600.0	3600.0	53.86	77.64	51.72
386	3600.0	117.09	57.35	46.97	49.86
387	36.81	56.05	26.35	66.61	2.27
387	73.97	54.97	27.28	69.5	2.06
387	38.08	46.21	26.66	150.83	2.33

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Table 1 – *Continued from previous page*

Name	original	($\ell = 5$)	($\ell = 4$)	($\ell = 3$)	($\ell = 2$)
	time	time	time	time	time
387	37.17	57.2	22.91	39.16	2.11
387	37.27	52.14	23.17	86.36	2.14
388	3600.0	3600.0	35.77	41.83	77.37
388	3600.0	3600.0	34.2	42.04	78.06
388	3600.0	3600.0	34.61	42.42	78.22
388	3600.0	125.23	32.7	43.34	71.53
388	3600.0	1317.2	34.14	43.2	78.69
389	1239.79	109.24	3600.0	44.97	253.57
389	1376.32	45.6	77.42	46.84	72.23
389	1257.35	108.14	3600.0	44.97	82.1
389	1258.47	48.52	115.25	43.4	57.03
389	1092.51	44.9	3600.0	45.98	166.89
390	51.01	25.86	31.56	49.09	56.0
390	54.46	31.65	38.5	51.81	56.44
390	55.28	29.2	35.42	55.77	60.4
390	55.29	30.51	35.79	49.94	62.23
390	55.84	30.53	39.04	52.18	62.8
391	27.51	27.74	54.26	42.2	12.45
391	29.36	33.3	46.94	51.39	11.71
391	29.01	32.52	57.3	43.26	11.71
391	27.56	27.73	57.26	54.48	11.48
391	25.66	33.26	56.39	44.6	12.33
392	30.6	103.24	156.92	101.85	44.13
392	79.12	106.54	356.96	73.08	40.5
392	82.34	313.01	3600.0	184.71	46.18
392	68.72	658.18	84.27	67.97	45.97
392	77.08	183.62	87.03	83.92	45.99
393	36.91	65.2	3600.0	64.79	33.01
393	274.95	81.23	3600.0	63.85	26.95
393	351.71	52.9	3600.0	65.22	32.63
393	41.42	148.85	3600.0	66.09	32.65
393	274.32	69.44	3600.0	65.52	30.93
394	32.06	63.76	75.03	43.7	44.62
394	28.1	34.54	75.99	37.86	34.39
394	36.25	41.84	72.85	40.88	45.16
394	32.44	57.91	68.41	40.85	45.58
394	33.11	56.31	67.91	37.82	45.23
395	27.87	449.53	88.44	46.17	37.62
395	28.41	391.14	181.61	44.34	42.67
395	27.32	430.54	59.75	44.09	44.8

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Table 1 – *Continued from previous page*

Name	original	$(\ell = 5)$	$(\ell = 4)$	$(\ell = 3)$	$(\ell = 2)$
	time	time	time	time	time
395	30.39	444.05	65.43	42.88	41.16
395	27.57	464.66	174.86	44.44	42.93
396	3600.0	256.59	3600.0	1436.47	49.44
396	3600.0	147.67	3600.0	1197.17	45.95
396	3600.0	328.72	3600.0	1394.95	47.81
396	3600.0	73.44	3600.0	1454.22	45.84
396	3600.0	247.2	3600.0	1389.04	45.73
397	3600.0	3600.0	125.05	3600.0	90.11
397	3600.0	3600.0	208.33	3600.0	156.19
397	3600.0	832.67	344.03	3600.0	256.52
397	3600.0	1718.15	217.71	3600.0	410.18
397	3600.0	2181.58	270.03	3600.0	76.25
398	3600.0	3600.0	49.35	3600.0	11.16
398	3600.0	3600.0	48.85	3600.0	11.41
398	3600.0	3600.0	39.91	3600.0	11.1
398	3600.0	3600.0	46.73	3600.0	11.25
398	3600.0	3600.0	47.88	3600.0	11.43
399	32.35	49.86	3600.0	72.07	48.41
399	31.52	62.41	3600.0	73.45	48.59
399	29.82	62.3	3600.0	76.24	48.3
399	31.0	62.14	3600.0	68.57	49.27
399	32.6	60.97	3600.0	75.77	53.3