

Table 1: SCIP Solver Knapsack Instances

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
300	640	3600.0	640	1440.62	640	91.54	640	3066.47	640	82.79
300	640	3600.0	640	3600.0	640	99.49	640	3600.0	640	80.58
300	640	3600.0	640	1221.99	640	91.61	640	1281.98	640	82.63
300	640	3600.0	640	1413.66	640	99.79	640	1401.68	640	81.7
300	640	3600.0	640	1398.9	640	98.37	640	3600.0	640	72.79
301	640	3600.0	640	3600.0	640	3600.0	640	83.01	640	97.73
301	640	3600.0	640	3600.0	640	3600.0	640	81.6	640	110.1
301	640	3600.0	640	3600.0	640	3600.0	640	82.03	640	110.05
301	640	3600.0	640	3600.0	640	3600.0	640	81.74	640	90.5
301	640	3600.0	640	3600.0	640	3600.0	640	80.59	640	84.36
302	640	3600.0	640	3600.0	640	90.11	640	159.76	640	128.57
302	640	3600.0	640	3600.0	640	82.69	640	139.34	640	103.11
302	640	3600.0	640	3600.0	640	93.78	640	141.88	640	116.68
302	640	3600.0	640	3600.0	640	88.45	640	152.82	640	115.6
302	640	3600.0	640	3600.0	640	81.57	640	130.3	640	131.5
303	640	3600.0	640	3600.0	640	131.5	640	3600.0	640	363.11
303	640	3600.0	640	3600.0	640	122.49	640	3600.0	640	100.89
303	640	3600.0	640	3600.0	640	133.56	640	3600.0	640	129.87
303	640	3600.0	640	3600.0	640	123.97	640	3600.0	640	115.08
303	640	3600.0	640	3600.0	640	126.33	640	3600.0	640	90.69
304	640	3600.0	640	3600.0	640	3600.0	640	77.65	640	28.86
304	640	3600.0	640	3600.0	640	3600.0	640	80.09	640	29.22
304	640	3600.0	640	3600.0	640	3600.0	640	75.37	640	29.08
304	640	3600.0	640	3600.0	640	3600.0	640	77.46	640	29.29
304	640	3600.0	640	3600.0	640	3600.0	640	77.63	640	29.37
305	640	3600.0	640	3600.0	640	3600.0	640	228.53	640	105.66
305	640	3600.0	640	3600.0	640	3600.0	640	225.89	640	108.94
305	640	3600.0	640	3600.0	640	3600.0	640	241.02	640	110.7
305	640	3600.0	640	3600.0	640	3600.0	640	243.23	640	112.83
305	640	3600.0	640	3600.0	640	3600.0	640	237.8	640	111.63
306	640	3600.0	640	114.32	640	113.82	640	81.57	640	120.71
306	640	3600.0	640	96.78	640	111.25	640	72.68	640	115.88
306	640	3600.0	640	102.46	640	135.67	640	79.57	640	107.04
306	640	3600.0	640	101.3	640	150.3	640	75.14	640	116.99
306	640	3600.0	640	103.36	640	95.95	640	72.09	640	109.53
307	640	105.34	640	109.45	640	567.75	640	76.42	640	230.0
307	640	757.7	640	3600.0	640	251.32	640	76.4	640	207.68
307	640	85.24	640	109.08	640	493.64	640	75.41	640	226.37

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
307	640	3600.0	640	114.21	640	647.81	640	72.25	640	225.53
307	640	3600.0	640	3600.0	640	1172.95	640	77.07	640	206.17
308	640	3600.0	640	931.23	640	177.1	640	190.21	640	165.57
308	640	3600.0	640	458.07	640	3600.0	640	207.19	640	158.59
308	640	3600.0	640	3600.0	640	268.13	640	190.29	640	164.29
308	640	3600.0	640	3600.0	640	822.48	640	192.02	640	161.27
308	640	3600.0	640	3600.0	640	230.76	640	262.14	640	161.93
309	640	3600.0	640	400.71	640	3600.0	640	78.87	640	67.13
309	640	3600.0	640	344.28	640	3600.0	640	78.08	640	67.12
309	640	3600.0	640	338.2	640	3600.0	640	77.79	640	60.94
309	640	3600.0	640	331.3	640	394.52	640	77.98	640	62.24
309	640	3600.0	640	347.78	640	454.8	640	78.48	640	63.78
310	640	949.27	640	95.86	640	170.85	640	71.25	640	258.81
310	640	274.67	640	94.49	640	166.6	640	72.36	640	259.98
310	640	194.23	640	86.51	640	169.38	640	88.77	640	263.66
310	640	385.78	640	99.99	640	109.76	640	88.99	640	260.49
310	640	346.32	640	85.38	640	111.61	640	80.65	640	261.23
311	640	3600.0	640	191.57	640	688.27	640	3600.0	640	84.05
311	640	3600.0	640	435.44	640	677.92	640	248.16	640	87.26
311	640	3600.0	640	109.49	640	368.62	640	282.52	640	89.71
311	640	3600.0	640	107.56	640	727.17	640	309.23	640	84.41
311	640	3600.0	640	129.29	640	400.76	640	182.62	640	86.24
312	640	3600.0	640	109.17	640	150.27	640	2442.58	640	91.99
312	640	3600.0	640	122.19	640	147.5	640	442.52	640	94.34
312	640	3600.0	640	117.45	640	143.18	640	3600.0	640	91.76
312	640	2433.87	640	112.01	640	142.67	640	2834.45	640	92.34
312	640	3600.0	640	169.74	640	147.23	640	617.97	640	93.87
313	640	119.22	640	231.84	640	215.22	640	226.06	640	570.07
313	640	123.03	640	490.84	640	3600.0	640	391.12	640	536.05
313	640	186.97	640	251.36	640	3600.0	640	212.14	640	559.17
313	640	115.09	640	652.5	640	245.85	640	226.17	640	579.76
313	640	114.78	640	354.06	640	197.44	640	212.54	640	602.66
314	640	100.15	640	74.47	640	127.93	640	167.64	640	117.64
314	640	95.87	640	72.44	640	129.69	640	205.67	640	121.79
314	640	93.13	640	76.59	640	128.53	640	158.66	640	121.75
314	640	100.53	640	71.45	640	127.96	640	145.08	640	123.12
314	640	102.33	640	73.6	640	127.81	640	180.6	640	115.96
315	640	3600.0	640	259.54	640	150.01	640	163.21	640	75.72
315	640	3600.0	640	233.94	640	132.83	640	154.87	640	79.37
315	640	3600.0	640	258.2	640	154.68	640	155.52	640	79.71

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
315	640	3600.0	640	252.09	640	134.14	640	158.11	640	79.85
315	640	3600.0	640	268.1	640	151.26	640	156.64	640	77.46
316	640	2781.2	640	3600.0	640	3600.0	640	194.78	640	114.35
316	640	2943.08	640	3600.0	640	3600.0	640	194.68	640	112.68
316	640	2877.61	640	3600.0	640	3600.0	640	194.72	640	113.29
316	640	2914.95	640	3600.0	640	3600.0	640	194.06	640	114.48
316	640	2798.96	640	3600.0	640	3600.0	640	193.16	640	111.19
317	640	3600.0	640	3600.0	640	3600.0	640	90.97	640	3600.0
317	640	3600.0	640	3600.0	640	3600.0	640	63.24	640	3600.0
317	640	3600.0	640	229.2	640	3600.0	640	91.45	640	3600.0
317	640	3600.0	640	646.41	640	3600.0	640	89.13	640	3600.0
317	640	3600.0	640	2795.03	640	3268.81	640	63.3	640	3600.0
318	0	0.72	640	3600.0	640	3600.0	640	45.15	640	99.34
318	0	0.74	640	3600.0	640	3600.0	640	45.56	640	100.63
318	0	0.77	640	3600.0	640	920.38	640	44.87	640	107.06
318	0	0.73	640	3600.0	640	3600.0	640	45.49	640	104.67
318	0	0.74	640	3600.0	640	3600.0	640	45.8	640	106.26
319	640	3600.0	640	108.2	640	3600.0	640	3600.0	640	76.02
319	640	3600.0	640	107.97	640	2310.27	640	3600.0	640	76.34
319	640	3600.0	640	109.77	640	944.7	640	3600.0	640	77.79
319	640	3600.0	640	108.72	640	1763.04	640	3600.0	640	75.04
319	640	3600.0	640	108.69	640	109.31	640	3600.0	640	78.84
320	426	3600.0	426	3600.0	426	3600.0	426	434.99	426	847.17
320	426	3600.0	426	3600.0	426	3600.0	426	434.84	426	1185.56
320	426	3600.0	426	3600.0	426	3600.0	426	437.03	426	1005.7
320	426	3600.0	426	3600.0	426	3600.0	426	436.36	426	966.44
320	426	3600.0	426	3600.0	426	3600.0	426	437.85	426	816.82
321	426	3600.0	426	3600.0	426	292.99	426	288.22	426	253.2
321	426	3600.0	426	3600.0	426	295.66	426	290.91	426	255.75
321	426	3600.0	426	3600.0	426	323.93	426	282.59	426	257.32
321	426	3600.0	426	3600.0	426	298.4	426	286.88	426	252.94
321	426	3600.0	426	3600.0	426	275.48	426	278.44	426	253.43
322	426	3600.0	426	251.0	426	3600.0	426	204.95	426	157.73
322	426	3600.0	426	250.55	426	3600.0	426	206.61	426	158.85
322	426	3600.0	426	253.17	426	3600.0	426	206.71	426	151.99
322	426	3600.0	426	198.82	426	3600.0	426	200.11	426	156.8
322	426	286.88	426	246.09	426	3600.0	426	206.63	426	159.35
323	426	3600.0	426	1106.85	426	378.97	426	301.87	426	487.41
323	426	3600.0	426	183.13	426	348.3	426	302.39	426	609.41
323	426	3600.0	426	1312.59	426	345.41	426	298.96	426	447.4

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
323	426	3600.0	426	924.5	426	355.35	426	295.4	426	444.43
323	426	3600.0	426	221.96	426	360.85	426	300.64	426	1707.07
324	426	3600.0	426	3600.0	426	3600.0	426	1582.38	426	3600.0
324	426	3600.0	426	3600.0	426	3600.0	426	3600.0	426	3600.0
324	426	3600.0	426	3600.0	426	3600.0	426	3600.0	426	3600.0
324	426	3600.0	426	3600.0	426	3600.0	426	3600.0	426	3600.0
324	426	3600.0	426	3600.0	426	3600.0	426	3600.0	426	3600.0
324	426	3600.0	426	3600.0	426	3600.0	426	3600.0	426	3600.0
325	426	3600.0	426	133.36	426	218.25	426	1245.96	426	93.1
325	426	3600.0	426	133.11	426	218.78	426	732.96	426	94.79
325	426	3600.0	426	133.26	426	228.96	426	680.07	426	94.46
325	426	3600.0	426	132.73	426	232.59	426	555.04	426	94.59
325	426	3600.0	426	134.61	426	227.25	426	1107.38	426	94.99
326	426	314.23	426	90.98	426	3600.0	426	3600.0	426	161.64
326	426	312.98	426	89.06	426	3600.0	426	3600.0	426	163.58
326	426	324.4	426	89.38	426	3600.0	426	3600.0	426	162.6
326	426	320.78	426	91.62	426	3600.0	426	1729.09	426	164.78
326	426	310.49	426	90.96	426	3600.0	426	3600.0	426	153.06
327	426	3600.0	426	515.27	426	1692.63	426	699.39	426	206.56
327	426	3600.0	426	3600.0	426	3206.78	426	352.59	426	214.74
327	426	3600.0	426	508.27	426	2617.66	426	352.33	426	217.31
327	426	741.94	426	570.67	426	1612.4	426	353.73	426	215.48
327	426	3600.0	426	493.01	426	3600.0	426	398.89	426	213.04
328	426	3600.0	426	614.44	426	161.46	426	244.98	426	377.09
328	426	3600.0	426	572.91	426	163.97	426	238.05	426	376.55
328	426	3600.0	426	577.14	426	150.02	426	252.03	426	377.85
328	426	3600.0	426	598.49	426	165.84	426	243.81	426	378.46
328	426	3600.0	426	530.33	426	164.65	426	525.47	426	380.1
329	426	2058.24	426	3600.0	426	1957.82	426	198.62	426	190.06
329	426	1966.72	426	3600.0	426	2140.27	426	188.93	426	191.15
329	426	1229.91	426	3600.0	426	1521.01	426	191.02	426	184.25
329	426	917.5	426	3600.0	426	1524.03	426	189.54	426	190.16
329	426	1355.52	426	3600.0	426	1859.88	426	197.65	426	191.59
330	426	148.51	426	208.64	426	352.88	426	185.22	426	62.82
330	426	145.48	426	293.87	426	353.12	426	186.45	426	55.37
330	426	158.11	426	232.57	426	355.42	426	184.48	426	56.46
330	426	153.35	426	186.78	426	353.82	426	182.81	426	63.23
330	426	155.06	426	485.72	426	345.35	426	258.22	426	55.99
331	426	281.8	426	291.07	426	548.63	426	657.83	426	306.17
331	426	316.57	426	287.98	426	769.71	426	722.69	426	292.01
331	426	517.45	426	276.91	426	968.66	426	2230.97	426	301.32

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
331	426	328.94	426	291.92	426	964.19	426	229.62	426	309.65
331	426	364.46	426	289.91	426	162.2	426	687.99	426	292.79
332	426	3600.0	426	393.35	426	313.79	426	579.66	426	197.32
332	426	3600.0	426	275.73	426	291.65	426	3600.0	426	204.77
332	426	3600.0	426	272.49	426	291.49	426	3600.0	426	206.13
332	426	3600.0	426	209.11	426	333.31	426	3600.0	426	205.39
332	426	3600.0	426	274.26	426	529.74	426	3600.0	426	203.97
333	426	3600.0	426	316.01	426	377.6	426	3600.0	426	883.09
333	426	3600.0	426	214.83	426	358.96	426	3600.0	426	873.12
333	426	3600.0	426	234.37	426	395.25	426	3600.0	426	908.45
333	426	3600.0	426	255.15	426	380.05	426	3600.0	426	864.2
333	426	3600.0	426	213.57	426	356.83	426	3600.0	426	893.81
334	426	3186.05	426	527.96	426	239.02	426	455.22	426	3600.0
334	426	3600.0	426	3600.0	426	238.71	426	560.29	426	3600.0
334	426	3600.0	426	501.36	426	221.07	426	465.85	426	3600.0
334	426	3600.0	426	543.68	426	238.45	426	478.9	426	3600.0
334	426	3600.0	426	470.05	426	238.87	426	538.35	426	3600.0
335	426	3600.0	426	622.72	426	632.95	426	121.31	426	321.68
335	426	3600.0	426	678.89	426	695.27	426	117.92	426	341.48
335	426	3600.0	426	615.22	426	508.38	426	137.75	426	438.05
335	426	2315.5	426	610.39	426	538.51	426	120.32	426	460.7
335	426	2053.0	426	633.0	426	557.26	426	118.27	426	373.73
336	426	3600.0	426	213.83	426	199.76	426	232.9	426	314.6
336	426	3600.0	426	215.37	426	179.2	426	226.89	426	311.72
336	426	3600.0	426	206.42	426	182.44	426	228.45	426	311.9
336	426	3600.0	426	215.84	426	197.33	426	222.59	426	312.11
336	426	3600.0	426	212.35	426	201.65	426	228.78	426	313.67
337	426	3600.0	426	3600.0	426	1108.31	426	3600.0	0	1.05
337	426	3600.0	426	3600.0	426	560.8	426	3600.0	0	1.01
337	426	3600.0	426	3600.0	426	1518.85	426	3600.0	0	1.04
337	426	3600.0	426	3600.0	426	1831.95	426	3600.0	0	1.16
337	426	3600.0	426	3600.0	426	2914.59	426	3600.0	0	1.07
338	426	3600.0	426	764.03	426	350.29	426	3600.0	426	17.21
338	426	3600.0	426	773.06	426	516.24	426	874.97	426	17.13
338	426	3600.0	426	2337.54	426	315.8	426	728.76	426	16.91
338	426	3600.0	426	2546.03	426	2595.43	426	3600.0	426	17.28
338	426	3600.0	426	765.58	426	335.99	426	2112.27	426	16.84
339	426	3600.0	426	311.85	426	257.68	426	289.32	426	172.57
339	426	570.14	426	316.15	426	240.94	426	297.94	426	175.02
339	426	1156.1	426	299.25	426	250.76	426	295.96	426	173.03

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
339	426	3600.0	426	300.21	426	239.29	426	292.93	426	179.17
339	426	3600.0	426	314.85	426	250.22	426	293.52	426	177.53
340	320	3600.0	320	3600.0	320	3600.0	320	370.0	320	347.81
340	320	3600.0	320	3600.0	320	2214.49	320	364.89	320	370.56
340	320	3600.0	320	3600.0	320	3600.0	320	421.54	320	342.19
340	320	3600.0	320	3600.0	320	669.15	320	364.08	320	364.37
340	320	3600.0	320	3600.0	320	3600.0	320	446.58	320	371.53
341	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	547.28
341	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	566.79
341	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	3600.0
341	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	544.39
341	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	560.62
342	320	3600.0	320	3600.0	320	417.19	320	3600.0	320	448.27
342	320	3600.0	320	3600.0	320	421.98	320	3600.0	320	447.12
342	320	3600.0	320	3600.0	320	416.0	320	813.6	320	442.67
342	320	3600.0	320	3600.0	320	402.02	320	974.38	320	445.15
342	320	3600.0	320	3600.0	320	410.08	320	3600.0	320	451.12
343	320	3600.0	320	1279.76	320	430.47	320	719.85	320	3600.0
343	320	3600.0	320	3600.0	320	424.55	320	836.31	320	3600.0
343	320	3600.0	320	3600.0	320	414.29	320	789.47	320	3600.0
343	320	3600.0	320	2047.72	320	431.16	320	3600.0	320	3600.0
343	320	3600.0	320	3600.0	320	433.3	320	3600.0	320	3600.0
344	320	3600.0	320	237.41	320	3600.0	320	3600.0	320	3600.0
344	320	3600.0	320	227.04	320	2384.13	320	3600.0	320	3600.0
344	320	3600.0	320	236.19	320	385.52	320	3600.0	320	3600.0
344	320	3600.0	320	237.66	320	2568.67	320	3600.0	320	3600.0
344	320	3600.0	320	227.34	320	3600.0	320	3600.0	320	3600.0
345	320	3600.0	320	3600.0	320	3600.0	320	437.88	320	54.55
345	320	3600.0	320	3600.0	320	1413.82	320	370.17	320	54.42
345	320	3600.0	320	3600.0	320	3600.0	320	367.76	320	54.59
345	320	3600.0	320	1108.21	320	3600.0	320	372.0	320	55.1
345	320	3600.0	320	3600.0	320	1489.14	320	435.47	320	54.06
346	320	3600.0	320	3600.0	320	246.97	320	557.73	320	404.98
346	320	3600.0	320	3600.0	320	289.7	320	550.86	320	408.12
346	320	3600.0	320	3600.0	320	335.56	320	551.39	320	424.11
346	320	3600.0	320	3600.0	320	305.8	320	561.09	320	384.05
346	320	3600.0	320	3600.0	320	251.29	320	551.75	320	401.31
347	320	3600.0	320	3600.0	320	2460.16	320	344.66	320	53.33
347	320	3600.0	320	3600.0	320	693.97	320	404.3	320	42.81
347	320	3600.0	320	3600.0	320	3600.0	320	1060.46	320	42.97

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
347	320	3600.0	320	3600.0	320	3600.0	320	349.28	320	52.79
347	320	3600.0	320	3600.0	320	819.19	320	331.39	320	33.43
348	320	3600.0	320	677.58	320	1150.81	320	1193.3	320	286.23
348	320	3600.0	320	746.11	320	1478.93	320	1120.47	320	345.26
348	320	3600.0	320	852.4	320	714.73	320	314.72	320	288.2
348	320	3600.0	320	3600.0	320	882.7	320	898.46	320	268.62
348	320	3600.0	320	811.3	320	1165.2	320	3600.0	320	324.55
349	320	3600.0	320	572.93	320	330.81	320	376.39	320	748.86
349	320	3600.0	320	649.6	320	326.91	320	444.2	320	701.28
349	320	3600.0	320	638.71	320	331.35	320	357.59	320	755.66
349	320	3600.0	320	658.39	320	339.68	320	350.27	320	754.25
349	320	3600.0	320	545.79	320	321.53	320	357.24	320	754.08
350	320	3600.0	320	3600.0	320	402.03	320	442.08	320	643.13
350	320	3600.0	320	517.78	320	380.72	320	615.67	320	647.14
350	320	451.23	320	3600.0	320	397.12	320	290.26	320	394.65
350	320	3600.0	320	3600.0	320	408.93	320	627.98	320	639.86
350	320	3600.0	320	3600.0	320	401.94	320	279.86	320	624.39
351	320	343.61	320	227.14	320	2940.79	320	475.3	320	726.55
351	320	335.49	320	264.79	320	2418.96	320	353.7	320	566.27
351	320	387.33	320	240.6	320	2488.23	320	365.25	320	459.38
351	320	466.48	320	229.33	320	989.75	320	459.91	320	1312.42
351	320	358.31	320	275.15	320	3600.0	320	369.74	320	550.21
352	320	3600.0	320	257.21	320	3600.0	320	340.42	320	362.43
352	320	3600.0	320	254.85	320	3600.0	320	2693.05	320	371.49
352	320	3600.0	320	254.01	320	3600.0	320	342.62	320	385.05
352	320	3600.0	320	244.61	320	3600.0	320	344.04	320	361.59
352	320	3600.0	320	257.39	320	3600.0	320	2075.12	320	338.57
353	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	3438.23
353	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	3409.09
353	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	3600.0
353	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	3600.0
353	320	3600.0	320	3600.0	320	3600.0	320	3600.0	320	2004.47
354	320	209.91	320	934.61	320	379.71	320	242.99	320	87.04
354	320	197.4	320	951.81	320	355.72	320	229.0	320	86.65
354	320	204.16	320	1467.65	320	406.74	320	244.07	320	229.33
354	320	203.28	320	978.58	320	373.16	320	242.29	320	139.52
354	320	206.8	320	1438.25	320	379.22	320	233.36	320	234.5
355	320	215.66	320	377.52	320	3600.0	320	340.55	320	303.56
355	320	220.69	320	318.05	320	3600.0	320	353.02	320	310.88
355	320	222.59	320	305.09	320	3600.0	320	312.04	320	308.43

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
355	320	215.88	320	343.51	320	1483.48	320	339.83	320	310.9
355	320	215.02	320	310.04	320	1062.98	320	344.52	320	301.49
356	320	3600.0	320	3600.0	320	840.97	320	632.91	320	401.32
356	320	3600.0	320	3600.0	320	3370.17	320	1146.93	320	400.26
356	320	3600.0	320	1086.37	320	1173.96	320	825.84	320	403.93
356	320	3600.0	320	2541.75	320	849.24	320	2083.7	320	394.93
356	320	3600.0	320	1879.07	320	975.06	320	2161.57	320	396.51
357	320	3600.0	320	3600.0	320	708.76	320	3600.0	320	305.8
357	320	3600.0	320	3600.0	320	415.82	320	3600.0	320	394.87
357	320	3600.0	320	3600.0	320	423.44	320	3600.0	320	296.66
357	320	3600.0	320	3600.0	320	731.89	320	3600.0	320	386.31
357	320	3600.0	320	3600.0	320	292.8	320	3600.0	320	434.15
358	320	255.94	320	288.65	320	283.18	320	390.92	320	138.02
358	320	254.9	320	292.35	320	293.21	320	386.05	320	137.36
358	320	259.66	320	299.43	320	300.2	320	398.78	320	139.05
358	320	258.01	320	281.96	320	291.07	320	390.61	320	137.81
358	320	255.57	320	287.23	320	295.18	320	395.81	320	138.32
359	320	3600.0	320	3600.0	320	325.51	320	285.77	320	3600.0
359	320	3600.0	320	3600.0	320	243.53	320	294.07	320	3600.0
359	320	3600.0	320	3600.0	320	267.68	320	460.93	320	3600.0
359	320	3600.0	320	3600.0	320	309.66	320	288.28	320	3600.0
359	320	3600.0	320	3600.0	320	269.14	320	329.82	320	3600.0
360	256	3600.0	256	3600.0	256	1203.13	256	3600.0	256	391.79
360	256	3600.0	256	3600.0	256	1131.81	256	3600.0	256	394.42
360	256	3600.0	256	3600.0	256	1184.53	256	3600.0	256	394.59
360	256	3600.0	256	3600.0	256	1176.35	256	3600.0	256	385.12
360	256	3600.0	256	3600.0	256	1193.33	256	3600.0	256	390.05
361	256	3600.0	256	3600.0	256	3600.0	256	603.67	256	339.82
361	256	3600.0	256	3600.0	256	3600.0	256	606.4	256	421.3
361	256	3600.0	256	3600.0	256	3600.0	256	618.22	256	338.37
361	256	3600.0	256	3600.0	256	3600.0	256	618.98	256	407.67
361	256	3600.0	256	3600.0	256	3600.0	256	630.52	256	402.91
362	256	3600.0	256	3600.0	256	1076.04	256	135.66	256	475.45
362	256	3600.0	256	3600.0	256	522.47	256	137.91	256	483.23
362	256	3600.0	256	3600.0	256	528.01	256	137.74	256	488.31
362	256	3600.0	256	3600.0	256	673.41	256	135.88	256	487.83
362	256	3600.0	256	3600.0	256	488.55	256	137.0	256	486.77
363	256	407.18	256	3350.61	256	3600.0	256	433.41	256	30.54
363	256	443.99	256	807.57	256	442.01	256	438.99	256	29.79
363	256	643.79	256	967.09	256	645.78	256	447.41	256	30.05

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
363	256	458.3	256	1302.47	256	663.74	256	438.74	256	30.01
363	256	466.12	256	555.46	256	1144.96	256	430.05	256	29.66
364	256	3600.0	256	2631.52	256	280.91	256	854.76	256	576.56
364	256	3600.0	256	2630.63	256	1133.22	256	841.98	256	575.91
364	256	3600.0	256	3015.11	256	659.35	256	1225.08	256	580.7
364	256	3600.0	256	3017.65	256	481.6	256	3600.0	256	578.93
364	256	3600.0	256	2654.79	256	3600.0	256	770.86	256	563.29
365	256	3600.0	256	2037.0	256	3600.0	256	1703.37	256	3600.0
365	256	3600.0	256	3600.0	256	3600.0	256	968.53	256	3600.0
365	256	3600.0	256	3600.0	256	3600.0	256	981.03	256	3600.0
365	256	3600.0	256	3600.0	256	3600.0	256	2415.45	256	3600.0
365	256	3600.0	256	3536.19	256	3600.0	256	1224.86	256	3600.0
366	256	3600.0	256	3600.0	256	732.12	256	1901.24	256	568.92
366	256	3600.0	256	3600.0	256	744.72	256	1942.36	256	571.58
366	256	3600.0	256	3600.0	256	747.91	256	1944.35	256	575.37
366	256	3600.0	256	3600.0	256	808.45	256	1944.95	256	550.64
366	256	3600.0	256	3600.0	256	746.19	256	1906.81	256	569.51
367	256	3600.0	256	1333.9	256	950.3	256	3600.0	256	649.75
367	256	3600.0	256	473.32	256	955.87	256	3600.0	256	3600.0
367	256	3600.0	256	1547.21	256	931.37	256	3600.0	256	3600.0
367	256	3600.0	256	1078.6	256	945.8	256	3600.0	256	3600.0
367	256	3600.0	256	527.27	256	945.5	256	3600.0	256	3600.0
368	256	3600.0	256	3600.0	256	3600.0	256	1492.06	256	3600.0
368	256	3600.0	256	3600.0	256	3600.0	256	1469.61	256	3600.0
368	256	3600.0	256	3600.0	256	3600.0	256	1486.91	256	3600.0
368	256	3600.0	256	3600.0	256	3600.0	256	1449.6	256	3600.0
368	256	3600.0	256	3600.0	256	3600.0	256	1490.11	256	3600.0
369	256	3600.0	256	781.88	256	1463.42	256	1205.09	256	341.9
369	256	3600.0	256	369.7	256	1569.1	256	1586.22	256	337.76
369	256	3600.0	256	1578.53	256	1462.81	256	1207.14	256	337.54
369	256	3600.0	256	898.34	256	1516.91	256	1944.22	256	335.91
369	256	3600.0	256	2716.87	256	1559.39	256	1238.15	256	338.65
370	256	433.48	256	411.24	256	3600.0	256	1536.79	256	1297.17
370	256	3600.0	256	439.24	256	3600.0	256	946.75	256	1279.82
370	256	469.53	256	465.17	256	3600.0	256	944.18	256	1272.9
370	256	466.19	256	447.43	256	3600.0	256	868.54	256	1294.11
370	256	3600.0	256	434.04	256	3370.34	256	1127.76	256	1272.18
371	256	3600.0	256	3600.0	256	2683.14	256	1492.5	256	838.69
371	256	3600.0	256	3600.0	256	3600.0	256	1003.23	256	812.21
371	256	3600.0	256	1115.33	256	3600.0	256	3600.0	256	828.91

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
371	256	3600.0	256	3600.0	256	2431.6	256	1262.42	256	837.5
371	256	3600.0	256	3600.0	256	3518.4	256	1297.87	256	834.77
372	256	3600.0	256	3600.0	256	3600.0	256	3600.0	256	1025.71
372	256	3600.0	256	3600.0	256	3600.0	256	3600.0	256	1019.31
372	256	3600.0	256	3600.0	256	3600.0	256	3600.0	256	1037.3
372	256	3600.0	256	3600.0	256	3600.0	256	3600.0	256	1010.59
372	256	3600.0	256	3600.0	256	3600.0	256	3600.0	256	1014.24
373	256	3600.0	256	346.11	256	3600.0	256	3600.0	256	3600.0
373	256	3600.0	256	578.23	256	3600.0	256	3600.0	256	1381.23
373	256	3600.0	256	350.06	256	3600.0	256	3600.0	256	3600.0
373	256	3600.0	256	347.25	256	3600.0	256	3600.0	256	1344.31
373	256	3600.0	256	361.71	256	3600.0	256	3600.0	256	3600.0
374	256	1134.74	256	603.4	256	679.33	256	473.78	256	450.76
374	256	1173.67	256	606.52	256	675.83	256	470.64	256	598.3
374	256	1154.89	256	618.87	256	696.12	256	482.4	256	695.9
374	256	940.15	256	606.36	256	689.08	256	454.75	256	1403.85
374	256	979.7	256	626.87	256	689.09	256	469.33	256	3600.0
375	256	458.84	256	3600.0	256	812.05	256	558.52	256	382.39
375	256	465.6	256	3600.0	256	1477.64	256	572.87	256	383.38
375	256	462.91	256	3600.0	256	758.1	256	613.46	256	379.06
375	256	463.43	256	3600.0	256	1941.88	256	631.71	256	385.77
375	256	463.16	256	3600.0	256	873.07	256	604.15	256	377.71
376	256	3600.0	256	478.16	256	367.51	256	656.0	256	741.76
376	256	3600.0	256	478.04	256	364.02	256	656.8	256	752.97
376	256	3600.0	256	474.59	256	351.16	256	632.54	256	753.1
376	256	3600.0	256	472.51	256	365.67	256	656.88	256	758.44
376	256	3600.0	256	477.72	256	366.72	256	653.74	256	753.56
377	256	3600.0	256	3600.0	256	394.5	256	3600.0	256	75.22
377	256	3600.0	256	3600.0	256	401.14	256	3600.0	256	74.26
377	256	3600.0	256	3600.0	256	391.41	256	3600.0	256	73.68
377	256	3600.0	256	3600.0	256	398.07	256	3600.0	256	74.8
377	256	3600.0	256	3600.0	256	383.36	256	3600.0	256	74.27
378	256	3600.0	256	3600.0	256	18.65	256	379.04	256	297.09
378	256	3600.0	256	3600.0	256	19.47	256	348.69	256	295.21
378	256	3600.0	256	3600.0	256	19.25	256	372.78	256	296.12
378	256	3600.0	256	3600.0	256	18.87	256	351.08	256	293.85
378	256	3600.0	256	3600.0	256	18.47	256	370.53	256	296.82
379	256	3600.0	256	3600.0	256	1622.74	256	172.97	256	843.66
379	256	3600.0	256	3600.0	256	1761.34	256	171.81	256	860.88
379	256	3600.0	256	2574.83	256	1350.69	256	167.65	256	852.76

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
379	256	3600.0	256	3600.0	256	1022.49	256	172.3	256	830.44
379	256	3600.0	256	3600.0	256	930.54	256	171.61	256	841.51
380	1280	28.15	1280	3.83	1280	4.92	1280	41.5	1280	44.07
380	1280	26.44	1280	3.79	1280	4.9	1280	41.97	1280	45.76
380	1280	29.09	1280	3.48	1280	5.49	1280	41.54	1280	43.37
380	1280	24.34	1280	3.92	1280	5.25	1280	42.62	1280	48.81
380	1280	25.12	1280	3.82	1280	4.91	1280	39.5	1280	48.79
381	1280	3600.0	1280	3600.0	1280	3600.0	1280	35.16	1280	88.22
381	1280	3600.0	1280	3600.0	1280	3600.0	1280	37.06	1280	88.21
381	1280	3600.0	1280	3600.0	1280	3600.0	1280	35.06	1280	89.92
381	1280	3600.0	1280	3600.0	1280	3600.0	1280	35.93	1280	95.65
381	1280	3600.0	1280	3600.0	1280	3600.0	1280	38.3	1280	86.86
382	1280	3600.0	1280	32.12	1280	231.77	1280	37.6	1280	53.81
382	1280	3600.0	1280	53.65	1280	230.92	1280	35.97	1280	64.05
382	1280	3600.0	1280	30.84	1280	211.27	1280	33.5	1280	54.75
382	1280	3600.0	1280	30.5	1280	328.59	1280	32.01	1280	55.14
382	1280	3600.0	1280	32.25	1280	247.84	1280	33.36	1280	54.66
383	1280	3600.0	1280	55.23	1280	67.82	0	0.32	1280	7.66
383	1280	3600.0	1280	55.15	1280	70.76	0	0.32	1280	7.44
383	1280	3600.0	1280	66.25	1280	61.2	0	0.4	1280	8.12
383	1280	3600.0	1280	58.34	1280	67.96	0	0.35	1280	8.1
383	1280	3600.0	1280	58.24	1280	69.56	0	0.33	1280	7.55
384	806	3600.0	1280	3600.0	1280	82.43	1280	17.98	1280	2107.86
384	806	3600.0	1280	3600.0	1280	127.42	1280	21.36	1280	469.68
384	806	3600.0	1280	3600.0	1280	117.6	1280	23.23	1280	147.28
384	806	3600.0	1280	3600.0	1280	93.33	1280	17.27	1280	82.37
384	806	3600.0	1280	3600.0	1280	79.91	1280	22.89	1280	145.72
385	769	34.38	1280	73.49	1280	27.49	1280	63.29	1280	14.05
385	769	35.07	1280	214.64	1280	24.3	1280	57.79	1280	14.08
385	769	33.61	1280	62.39	1280	27.97	1280	65.5	1280	13.26
385	769	34.02	1280	60.76	1280	24.48	1280	55.77	1280	13.61
385	769	31.21	1280	157.59	1280	24.37	1280	62.93	1280	13.61
386	781	3600.0	1280	147.36	1280	56.98	1280	53.11	1280	50.78
386	781	3600.0	1280	3600.0	1280	49.12	1280	85.47	1280	50.72
386	781	3600.0	1280	3600.0	1280	55.74	1280	72.34	1280	49.8
386	781	3600.0	1280	3600.0	1280	54.95	1280	73.77	1280	46.59
386	781	3600.0	1280	107.01	1280	56.66	1280	47.1	1280	49.41
387	754	3600.0	1280	56.02	1280	27.89	1280	61.95	1280	2.5
387	754	3600.0	1280	51.69	1280	23.74	1280	59.41	1280	2.83
387	754	3600.0	1280	52.31	1280	27.62	1280	149.07	1280	2.82

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
387	754	3600.0	1280	50.13	1280	26.63	1280	37.68	1280	2.46
387	754	3600.0	1280	57.58	1280	25.86	1280	91.32	1280	2.5
388	426	3448.08	1280	75.64	1280	35.63	1280	44.13	1280	78.78
388	426	2650.73	1280	195.1	1280	34.32	1280	43.76	1280	73.3
388	426	2819.66	1280	3600.0	1280	30.06	1280	40.14	1280	81.66
388	426	2483.48	1280	3600.0	1280	30.19	1280	45.19	1280	81.51
388	426	3289.92	1280	3600.0	1280	30.23	1280	43.18	1280	72.8
389	426	972.78	1280	108.26	1280	3600.0	1280	43.97	1280	250.9
389	426	638.24	1280	43.19	1280	81.66	1280	45.44	1280	69.76
389	426	1543.67	1280	108.99	1280	3600.0	1280	44.06	1280	75.25
389	426	1409.27	1280	43.34	1280	127.42	1280	39.32	1280	87.59
389	426	61.86	1280	49.61	1280	3600.0	1280	45.38	1280	160.04
390	437	51.86	1280	26.19	1280	31.96	1280	57.71	1280	65.2
390	437	59.01	1280	30.68	1280	36.24	1280	52.22	1280	57.39
390	437	60.14	1280	30.64	1280	37.94	1280	54.09	1280	56.89
390	437	57.45	1280	31.44	1280	37.7	1280	50.9	1280	63.91
390	437	57.98	1280	26.49	1280	38.29	1280	47.39	1280	57.04
391	457	28.72	1280	32.99	1280	48.51	1280	43.68	1280	12.86
391	457	28.78	1280	29.08	1280	55.63	1280	51.67	1280	12.83
391	457	26.07	1280	33.32	1280	57.09	1280	55.21	1280	12.72
391	457	28.98	1280	28.59	1280	58.91	1280	43.87	1280	12.64
391	457	28.89	1280	32.23	1280	58.59	1280	52.24	1280	11.8
392	354	116.6	1280	88.16	1280	98.84	1280	68.06	1280	45.95
392	354	119.2	1280	110.72	1280	117.67	1280	74.27	1280	43.57
392	354	132.24	1280	221.59	1280	89.29	1280	73.41	1280	47.76
392	354	100.33	1280	1109.2	1280	106.95	1280	84.35	1280	45.72
392	354	71.22	1280	163.72	1280	110.81	1280	241.65	1280	40.92
393	290	42.39	1280	65.2	1280	3600.0	1280	67.52	1280	33.7
393	290	37.79	1280	83.18	1280	3600.0	1280	58.68	1280	30.66
393	290	347.12	1280	56.54	1280	3600.0	1280	56.82	1280	27.89
393	290	386.39	1280	171.81	1280	3600.0	1280	66.18	1280	32.48
393	290	342.54	1280	63.47	1280	3600.0	1280	67.34	1280	32.7
394	398	30.33	1280	68.13	1280	76.21	1280	38.61	1280	44.38
394	398	44.12	1280	42.47	1280	76.18	1280	45.03	1280	33.01
394	398	51.98	1280	45.1	1280	71.5	1280	43.1	1280	45.22
394	398	39.94	1280	57.56	1280	71.25	1280	38.63	1280	45.64
394	398	33.72	1280	68.22	1280	70.38	1280	41.27	1280	45.42
395	353	30.38	1280	458.89	1280	105.55	1280	45.63	1280	44.85
395	353	26.21	1280	395.24	1280	147.81	1280	48.07	1280	37.93
395	353	30.4	1280	377.98	1280	59.76	1280	49.57	1280	38.72

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Table 1 – *Continued from previous page*

Name	original		$(\ell = 5)$		$(\ell = 4)$		$(\ell = 3)$		$(\ell = 2)$	
	generators	time	generators	time	generators	time	generators	time	generators	time
395	353	29.9	1280	382.13	1280	66.64	1280	50.97	1280	38.12
395	353	30.04	1280	486.14	1280	136.44	1280	46.97	1280	45.88
396	1280	3600.0	1280	269.5	1280	3600.0	1280	1457.1	1280	46.56
396	1280	3600.0	1280	154.06	1280	3600.0	1280	1386.36	1280	46.52
396	1280	3600.0	1280	328.37	1280	3600.0	1280	1186.25	1280	50.32
396	1280	3600.0	1280	86.3	1280	3600.0	1280	1397.1	1280	48.65
396	1280	3600.0	1280	271.99	1280	3600.0	1280	1165.7	1280	46.11
397	1280	3600.0	1280	3600.0	1280	127.35	1280	3600.0	1280	99.9
397	1280	3600.0	1280	3600.0	1280	195.19	1280	3600.0	1280	156.64
397	1280	3600.0	1280	850.82	1280	282.25	1280	3600.0	1280	267.14
397	1280	3600.0	1280	2124.93	1280	228.51	1280	3600.0	1280	432.65
397	1280	3600.0	1280	2200.73	1280	256.32	1280	3600.0	1280	80.47
398	1280	3600.0	1280	3600.0	1280	47.68	1280	3600.0	1280	11.69
398	1280	3600.0	1280	3600.0	1280	49.29	1280	3600.0	1280	11.78
398	1280	3600.0	1280	3600.0	1280	46.66	1280	3600.0	1280	12.36
398	1280	3600.0	1280	3600.0	1280	47.24	1280	3600.0	1280	11.83
398	1280	3600.0	1280	3600.0	1280	41.39	1280	3600.0	1280	12.74
399	1280	34.96	1280	63.47	1280	3600.0	1280	74.61	1280	57.29
399	1280	36.46	1280	62.36	1280	3600.0	1280	75.58	1280	46.47
399	1280	35.47	1280	58.12	1280	3600.0	1280	77.65	1280	48.81
399	1280	36.51	1280	63.38	1280	3600.0	1280	73.77	1280	49.12
399	1280	41.46	1280	58.85	1280	3600.0	1280	75.5	1280	51.76