


```
NEOS Server Version 5.0
  Disclaimer:
  This information is provided without any express or
   implied warranty. In particular, there is no warranty
  of any kind concerning the fitness of this
   information for any particular purpose.
*********************
Job 4356788 has finished.
File exists
You are using the solver gurobi_ampl.
budget variety 5
                      small
Checking ampl.mod for gurobi_options...
Checking ampl.com for gurobi options...
Executing AMPL.
processing data.
processing commands.
Executing on neos-7.neos-server.org
Presolve eliminates 14289 constraints and 6 variables.
Adjusted problem:
1719 variables:
       1671 binary variables
       48 linear variables
1702 constraints, all linear; 19002 nonzeros
       24 equality constraints
       1678 inequality constraints
1 linear objective; 114 nonzeros.
Gurobi 6.5.0: threads=4
outlev=1
Optimize a model with 1702 rows, 1719 columns and 19002 nonzeros
Coefficient statistics:
 Matrix range
               [9e-01, 1e+08]
  Objective range [1e+00, 1e+00]
                [1e+00, 1e+00]
  Bounds range
  RHS range
                [1e+00, 2e+03]
Presolve removed 286 rows and 301 columns
Presolve time: 0.12s
Presolved: 1416 rows, 1418 columns, 16116 nonzeros
Variable types: 0 continuous, 1418 integer (1394 binary)
Found heuristic solution: objective 10856.500000
Found heuristic solution: objective 8739.0000000
Found heuristic solution: objective 6255.0000000
Root relaxation: objective 1.972346e+02, 2320 iterations, 0.08 seconds
   Nodes
                 Current Node
                                     Objective Bounds
                                                               Work
 Expl Unexpl | Obj Depth IntInf | Incumbent
                                             BestBd Gap | It/Node Time
```

(9 0	197.23462	0	42 6	255.00000	197.23462	96.8%	-	0s
Н (9 0			126	0.0000000	197.23462	84.3%	-	0s
	9 0	310.78223	0		260.00000	310.78223	75.3%	-	0s
	0	329.20726	0		260.00000	329.20726	73.9%	-	0s
	9 0	331.28496	0		260.00000	331.28496	73.7%	-	0s
	9 0	333.80842	0		260.00000	333.80842	73.5%	-	1s
	9 9	334.04486	0		260.00000	334.04486	73.5%	-	1s
	0	334.16721	0		260.00000	334.16721	73.5%	-	1s
	0 0 2	334.16721 334.16721	0		260.00000	334.16721	73.5%	-	1s
		334.10/21	0		260.00000 1.0000000	334.16721 343.11246	73.5% 71.4%	- 11.2	1s 1s
H 33					0.0000000	345.92618	70.4%	4.2	5s
H 184					9.0000000	345.92618	69.9%	4.2	5s
H 185					3.0000000	376.87273	64.9%	4.2	10s
187		574.53366	218		.073.00000	391.84760	63.5%	4.1	15s
H 187		37.1133300			3.0000000	391.84760	62.8%	4.1	16s
H 227					2.0000000	391.84760	61.3%	5.7	17s
H 227					0.0000000	391.84760	60.0%	5.7	17s
590	9 2915	662.26511	53	20	980.00000	398.06925	59.4%	5.4	20s
H1168	4 6626			92	6.0000000	409.71837	55.8%	5.2	23s
1479	5 9153	infeasible	112		926.00000	414.69366	55.2%	5.2	25s
2166	5 14354	589.77069	36	75	926.00000	425.61259	54.0%	5.1	52s
	1 14358	683.05354	71	74	926.00000	425.61259	54.0%	5.1	55s
	7 14362	753.19206	72	90	926.00000	425.61259	54.0%	5.1	60s
	2 14365	529.88738	38	88	926.00000	425.61259	54.0%	5.1	65s
	8 14369	451.59142	24	89	926.00000	425.61259	54.0%	5.1	71s
	2 14372	650.40233	66	92	926.00000	425.61259	54.0%	5.1	75s
	9 14377	529.26920	30	89	926.00000	425.61259	54.0%	5.1	80s
	4 14380	703.67077	52	91	926.00000	425.61259	54.0%	5.1	85s
	1 14385 7 14389	683.05354 753.19206	71 72	98 107	926.00000 926.00000	425.61259 425.61259	54.0% 54.0%	5.1 5.1	90s 95s
	1 14391	842.15936		110	926.00000	426.16548	54.0%	5.1	955 100s
	5 14474	524.33876	104	41	926.00000	426.16548	54.0%	5.3	100s 105s
	8 17002	469.49607	44	66	926.00000	426.16548	54.0%	5.0	110s
	3 19643	400.4007	105		5.000000	440.34657	49.1%	4.8	114s
	5 19798	806.98424	94	39	865.00000	440.81065	49.0%	4.8	116s
	1 22222	739.16509	39	55	865.00000	459.61396	46.9%	4.8	120s
	2 24760	501.30890	64	45	865.00000	473.13838	45.3%	4.8	125s
	4 27880	cutoff	66		865.00000	485.69375	43.9%	4.8	130s
7304	7 32341	576.23859	61	68	865.00000	494.84429	42.8%	4.8	135s
7835	7 35417	cutoff	59		865.00000	501.44890	42.0%	4.8	140s
	39228	804.32427	81	47	865.00000	508.60884	41.2%	4.8	145s
8957	7 41695	infeasible	62		865.00000	514.03925	40.6%	4.9	150s
9493	7 44678	719.04661	68	64	865.00000	517.87603	40.1%	4.9	155s
	5 47133	710.76740	57	54	865.00000	521.61321	39.7%	4.8	160s
	77 50453		53	83	865.00000	526.89536	39.1%	4.8	165s
	15 53020		58	65	865.00000	529.68733	38.8%	4.8	170s
	56 55857		51	69	865.00000	533.49842		4.8	175s
	80 58664		59	55	865.00000	536.95949	37.9%	4.8	180s
	36 62534		61		865.00000	541.61337	37.4%	4.8	185s
	78 65050 25 68478		50 52	67	865.00000 865.00000	544.89029	37.0% 36.6%	4.8 4.8	190s 195s
	25 00470 95 72083		53	07	865.00000	548.28080 552.62500	36.1%	4.8	201s
	31 73218		76	63	865.00000	553.96364	36.0%	4.8	2015 206s
	30 76265		82	49	865.00000	556.56565	35.7%	4.8	210s
	81 78886		50		865.00000	559.10663	35.4%	4.8	215s
	96 82399		44	63	865.00000	562.29026	35.0%	4.8	220s
	80 84866		63	58	865.00000	564.43870	34.7%	4.8	225s
	19 88233		77		865.00000	567.33412	34.4%	4.8	230s
	92 90816		60	59	865.00000	569.56556	34.2%	4.8	235s
	55 93814		49	68	865.00000	571.44489	33.9%	4.8	240s
	a 96431		60		865.00000	573.14981	33.7%	4.8	245s
	2 98496		96	9	865.00000	574.76978	33.6%	4.8	250s
2053	83 10131	.0 793.25652	67	42	865.00000	576.69717			
2104	95 10380	3 846.55938	116	59	865.00000	578.22982	33.2%	4.8	260s
	71 10632				865.00000				
	63 10930								
	95 11154				865.00000				
	22 11482				865.00000				
2396	78 11787	73 712.09836	5 56	57	865.00000	587.08603	32.1%	4.8	285s

,	10/2010							1200		
	245740	120747	695.10130	68	57	865.00000	588.76083	31.9%	4.8	290s
	251887	123536	cutoff	53		865.00000	590.34497	31.8%	4.8	295s
	255807	125333	770.81759	62	59	865.00000	591.30718	31.6%	4.8	300s
	262420	128441	604.23811	56	77	865.00000	593.05750	31.4%	4.8	305s
	267843	130998	703.10395	73	47	865.00000	594.49675	31.3%	4.8	310s
		134029	807.13192	73	53	865.00000	595.88601	31.1%	4.8	315s
	278571		829.15043	54	55	865.00000	596.92354	31.0%	4.8	320s
		138934	808.66763	54	76	865.00000	598.46518	30.8%	4.8	325s
	289290		854.14294	56	50	865.00000	599.55466	30.7%	4.8	330s
	295055		601.68977	47	77	865.00000	600.85672	30.5%	4.8	335s
		145877	801.83104	51	63	865.00000	601.89230	30.4%	4.8	340s
	305609		cutoff	68		865.00000	602.99024	30.3%	4.8	345s
	*311073			84	8	57.0000000	604.18424	29.5%	4.7	349s
			infeasible	70		857.00000	604.21089	29.5%	4.7	350s
	316277		798.26817	86	47	857.00000	605.40326	29.4%	4.8	355s
		153090	809.36594	64	61	857.00000	606.52566	29.2%	4.7	360s
		155359	cutoff	63		857.00000	607.93851	29.1%	4.7	365s
		157788	723.24359	61	61	857.00000	609.09770	28.9%	4.7	370s
		160079	804.22831	51	42	857.00000	610.27368	28.8%	4.7	375s
	342310		cutoff	103	- 4	857.00000	611.18140	28.7%	4.7	380s
		164180	815.62982	58	64	857.00000	612.48938	28.5%	4.7	385s
	352849		798.39937	73	42	857.00000	613.35340	28.4%	4.7	390s
		168631	840.76713	99	47 46	857.00000	614.54740	28.3%	4.7	395s
	363828		788.66981	60	46	857.00000	615.42658	28.2%	4.7	400s
			infeasible	74 64	E 6	857.00000 857.00000	616.52052	28.1%	4.7 4.7	405s
	375002	177200	801.01781 822.40869	64 60	56 74	857.00000	617.54246 618.42210	27.9% 27.8%	4.7	410s 415s
	385699		638.62047	52	52	857.00000	619.36224	27.8%	4.7	413s 420s
		181300	784.26125	56	65	857.00000	620.13417	27.7%	4.7	425s
		183652	650.79363	61	59	857.00000	621.06738	27.5%	4.7	430s
	401225		740.61957	81	75	857.00000	621.93304	27.3%	4.7	435s
	407070		776.22059	62	59	857.00000	622.84490	27.3%	4.7	440s
	412333		754.96874	82	68	857.00000	623.61893	27.2%	4.7	445s
	417891		cutoff	63	00	857.00000	624.44891	27.1%	4.7	450s
	423216		722.29175	58	42	857.00000	625.28086	27.0%	4.7	455s
	429194		731.97145	68	38	857.00000	626.32314	26.9%	4.7	460s
	433404		634.13539	62	77	857.00000	626.99386	26.8%	4.7	465s
	439514		cutoff	86		857.00000	627.81588	26.7%	4.7	470s
	444887	202856	641.28850	85	52	857.00000	628.55679	26.7%	4.7	475s
	451490	205447	780.81890	83	50	857.00000	629.48165	26.5%	4.7	480s
	456889	207639	826.32643	64	63	857.00000	630.30385	26.5%	4.7	485s
	461262	209249	822.24624	55	65	857.00000	630.96072	26.4%	4.7	490s
	466386	211385	721.89144	64	75	857.00000	631.56977	26.3%	4.7	495s
	472768		808.88439	64	55	857.00000	632.39638	26.2%	4.7	500s
	477529		762.78884	55	59	857.00000	633.04989	26.1%	4.7	505s
	484063		cutoff	46		857.00000	633.84459	26.0%	4.7	510s
	489102		709.65035	69	66	857.00000	634.46714	26.0%	4.7	515s
	494020		822.12553	81	59	857.00000	635.07324	25.9%	4.7	520s
	497883		729.67873	55	76	857.00000	635.53447	25.8%	4.7	525s
	503639		773.58204	58	77	857.00000	636.29739	25.8%	4.7	530s
	508607		652.53510	44	52	857.00000	636.84943	25.7%	4.7	535s
	512163		718.78747	57 72	51	857.00000	637.22786	25.6%	4.7	540s
	517355		797.88105	72 76	53	857.00000	637.84058	25.6%	4.7	545s
	*519052 523108		794.85744	76 77	64	25.0000000 825.00000	637.95312 638.50112	22.7% 22.6%	4.7 4.7	546s 550s
	526981		cutoff	65	04	825.00000	639.13337	22.5%	4.7	555s
		213500	790.94967	58	57	825.00000	639.80393	22.3%	4.7	560s
	537703		755.83742	50	59	825.00000	640.56415	22.4%	4.7	565s
			infeasible	101	33	825.00000	641.40837	22.3%	4.7	570s
			infeasible	74		825.00000	642.07885	22.2%	4.7	575s
	554668		695.43252	55	80	825.00000	642.92144	22.1%	4.7	580s
		221694	795.30636	88	62	825.00000	643.51486	22.0%	4.7	585s
	564417		824.11957	47	67	825.00000	644.14892	21.9%	4.7	590s
			infeasible	99		825.00000	644.75672	21.8%	4.7	595s
	573744		809.67658	76	42	825.00000	645.33472	21.8%	4.7	600s
	578650		708.18379	59	55	825.00000	645.85740	21.7%	4.7	605s
	584356		749.01710	88	34	825.00000	646.52671	21.6%	4.7	610s
	587856		767.60569	78	8	825.00000	646.97102	21.6%	4.7	615s
	592234		688.17071	69	45	825.00000	647.48283	21.5%	4.7	620s
	598339	233659	672.43869	76	70	825.00000	648.22912	21.4%	4.7	625s
	603732	235214	783.05489	58	62	825.00000	648.87695	21.3%	4.7	630s

608659	236655	cutoff	61		825.00000	649.40761	21.3%	4.7	635s
	237698	800.85624	70	56	825.00000	649.97466	21.2%	4.7	640s
	239449	720.55494	54	43	825.00000	650.58164	21.1%	4.7	645s
623133		cutoff	52	73	825.00000	651.02547	21.1%	4.7	650s
	242074				825.00000		21.1%	4.7	
		cutoff	58	42		651.55406			655s
633279		713.36969	91	43	825.00000	652.08113	21.0%	4.7	660s
	244567	785.07476	77	51	825.00000	652.57514	20.9%	4.7	665s
	246088	cutoff	78		825.00000	653.07498	20.8%	4.7	670s
646935	247182	791.06447	67	43	825.00000	653.50739	20.8%	4.7	675s
651639	248399	cutoff	64		825.00000	653.96753	20.7%	4.7	680s
656645	249843	806.27070	66	45	825.00000	654.50359	20.7%	4.8	685s
661289	251149	772.86801	87	60	825.00000	654.97570	20.6%	4.8	690s
	252264	734.17532	62	61	825.00000	655.44900	20.6%	4.8	695s
671606		697.09051	55	49	825.00000	655.93241	20.5%	4.8	700s
675354		685.42538	66	46	825.00000	656.35399	20.4%	4.8	705s
680157		743.00328	57	57	825.00000	656.85075	20.4%	4.8	710s
	257610	721.93007	73	55	825.00000	657.27993	20.3%	4.8	715s
690083		786.48739	62	64	825.00000	657.80607	20.3%	4.8	720s
693869	260008	782.61860	66	52	825.00000	658.16811	20.2%	4.8	725s
699688	261533	767.85937	68	45	825.00000	658.69191	20.2%	4.8	730s
704395	262865	779.06624	62	44	825.00000	659.17983	20.1%	4.8	735s
709206	264100	706.71261	70	42	825.00000	659.61957	20.0%	4.8	740s
	265550	821.22704	67	42	825.00000	660.11957	20.0%	4.8	745s
	266945	753.42366	57	53	825.00000	660.63767	19.9%	4.8	750s
_									
724043		682.24767	62	43	825.00000	661.04695	19.9%	4.8	755s
	269670	cutoff	65		825.00000	661.58718	19.8%	4.8	760s
734605		790.86199	65	50	825.00000	661.93240	19.8%	4.8	765s
		infeasible	47		825.00000	662.33564	19.7%	4.8	770s
743291	273027	811.44550	58	80	825.00000	662.71354	19.7%	4.8	775s
748109	274328	705.84100	74	53	825.00000	663.13361	19.6%	4.8	780s
753221	275617	778.85478	57	49	825.00000	663.59384	19.6%	4.8	785s
758082	276975	cutoff	57		825.00000	663.98904	19.5%	4.8	790s
	278446	758.53817	67	73	825.00000	664.48058	19.5%	4.8	795s
	279519	781.37672	61	43	825.00000	664.86261	19.4%	4.8	800s
773385		cutoff	67		825.00000	665.34160	19.4%	4.8	805s
	282164	788.73477	78	42	825.00000	665.75309	19.3%	4.8	810s
	283044	762.96604	73 77	40	825.00000	666.06882	19.3%	4.8	815s
786688		737.29381	80	42	825.00000	666.52258	19.2%	4.8	820s
790435		719.94396	60	56	825.00000	666.82232	19.2%	4.8	825s
795389		822.53556	65	50	825.00000	667.22936	19.1%	4.8	830s
799473		746.99769	53	49	825.00000	667.51575	19.1%	4.8	835s
	289146	768.89762	81	64	825.00000	667.98448	19.0%	4.8	840s
809906		cutoff	62		825.00000	668.35806	19.0%	4.8	845s
813786	291080	698.21204	69	53	825.00000	668.67532	18.9%	4.8	850s
817853	292085	780.44033	66	51	825.00000	669.01323	18.9%	4.8	855s
822650	293266	793.77311	60	51	825.00000	669.35632	18.9%	4.8	860s
828044	294516	824.40201	85	54	825.00000	669.82999	18.8%	4.8	865s
	295922	691.69029	71	64	825.00000	670.25561	18.8%	4.8	870s
	296876	819.07176	58	42	825.00000	670.65120	18.7%	4.8	875s
843096		cutoff	52	72	825.00000	671.01754	18.7%	4.8	880s
847603			71		825.00000	671.37997	18.6%	4.8	885s
		cutoff							
852176		706.62063	57	57	825.00000	671.74881	18.6%	4.8	890s
	301410	762.30972	63	25	825.00000	672.18556	18.5%	4.8	895s
	302547	cutoff	78		825.00000	672.53344	18.5%	4.8	900s
866977	303641	cutoff	72		825.00000	672.89047	18.4%	4.8	905s
871693	304884	cutoff	52		825.00000	673.24721	18.4%	4.8	910s
878030	306313	812.86310	63	42	825.00000	673.69690	18.3%	4.8	915s
881887	307354	cutoff	55		825.00000	673.97341	18.3%	4.8	920s
889176		712.69739	64	71	825.00000	674.44621	18.2%	4.8	925s
	310225	774.52046	87	63	825.00000	674.75468	18.2%	4.8	930s
898641		cutoff	65	0,5	825.00000	675.09898	18.2%	4.8	935s
		infeasible	58		825.00000	675.45059	18.1%	4.8	940s
	313504	811.49251	72	44	825.00000	675.76314	18.1%	4.8	945s
912342		676.09389	72 78	39	825.00000		18.0%	4.8	
						676.09389			950s
918256		745.06805	65	18	825.00000	676.53440	18.0%	4.8	955s
923649		718.33879	66	42	825.00000	676.88547	18.0%	4.8	960s
		infeasible	84		825.00000	677.22540	17.9%	4.8	965s
934051		809.26478	90	60	825.00000	677.60595	17.9%	4.9	970s
	320843	824.34945	65	49	825.00000	677.96221	17.8%	4.9	975s
	321493	728.26883	73	50	825.00000	678.22207	17.8%	4.9	980s
948811	322581	748.86060	87	61	825.00000	678.57189	17.7%	4.9	985s

0/2010							
954779 324010	802.69780	53	75	825.00000	678.96701	17.7%	4.9 990s
960109 325092	731.44956	64	60	825.00000	679.33650	17.7%	4.9 995s
964195 325922	cutoff	87		825.00000	679.65132	17.6%	4.9 1000s
968902 326859	cutoff	50		825.00000	679.96302	17.6%	4.9 1005s
973773 327880	811.07909	52	54	825.00000	680.26279	17.5%	4.9 1010s
979083 328967	cutoff	55		825.00000	680.65792	17.5%	4.9 1015s
985240 330493	690.91322	51	63	825.00000	681.04095	17.4%	4.9 1020s
989299 331491	760.48860	73 53	42	825.00000	681.27345	17.4%	4.9 1025s
994260 332544 998076 333457	708.39232	53 64	45 48	825.00000 825.00000	681.59962 681.84914	17.4% 17.4%	4.9 1030s
1003858 334887	707.15084 725.74774	64 67	46 64	825.00000	682.17583	17.4%	4.9 1035s 4.9 1040s
1009346 336204		72	0-	825.00000	682.48169	17.3%	4.9 1045s
1014550 337329	744.20254	65	62	825.00000	682.82490	17.2%	4.9 1050s
1019065 338283	789.33592	65	42	825.00000	683.08289	17.2%	4.9 1055s
1025917 339805	cutoff	69		825.00000	683.50357	17.2%	4.9 1060s
1030477 340622	721.03300	52	46	825.00000	683.83105	17.1%	4.9 1065s
1036985 342116	731.09463	59	51	825.00000	684.26016	17.1%	4.9 1070s
1042717 343361	cutoff	83		825.00000	684.59659	17.0%	4.9 1075s
1047057 344263	732.37309	54	73	825.00000	684.82657	17.0%	4.9 1080s
1052158 345274	782.04748	78	42	825.00000	685.15419	17.0%	4.9 1085s
1058168 346648	794.45261	57	59	825.00000	685.48071	16.9%	4.9 1090s
1063235 347589	769.01710	60	34	825.00000	685.79705	16.9%	4.9 1095s
1068433 348710 1073428 349871		103	42	825.00000	686.12592 686.42015	16.8%	4.9 1100s
1078909 350953	754.42980 742.27911	62 57	42 56	825.00000 825.00000	686.71109	16.8% 16.8%	4.9 1105s 4.9 1110s
1083689 351936	761.89059	60	29	825.00000	686.98687		4.9 1110S 4.9 1115s
1088669 352668	cutoff	79	23	825.00000	687.30272	16.7%	4.9 1120s
1094171 353757	690.42777	63	55	825.00000	687.65948	16.6%	4.9 1125s
1099604 354952	741.89206	66	60	825.00000	687.96213	16.6%	4.9 1130s
1105084 356169	782.12209	110	16	825.00000	688.26635	16.6%	4.9 1135s
1110270 357106	745.34414	66	42	825.00000	688.58353	16.5%	4.9 1140s
1117243 358680	cutoff	49		825.00000	688.93857	16.5%	4.9 1145s
1121907 359734	cutoff	55		825.00000	689.16879	16.5%	4.9 1150s
1127838 360912	711.60936	60	67	825.00000	689.47918	16.4%	4.9 1155s
1133353 362129	699.26940	65	49	825.00000	689.76729		4.9 1160s
1138791 363085	744.64967	86	54	825.00000	690.08436	16.4%	4.9 1165s
1143193 364097	cutoff	71		825.00000	690.30008	16.3%	4.9 1170s
1148429 365075 1154385 366291	cutoff	65 58	го	825.00000	690.58099	16.3% 16.3%	4.9 1175s
1154385 366291 1159792 367259	702.01981 791.25068	58 75	58 53	825.00000 825.00000	690.90952 691.20891	16.3%	4.9 1180s 4.9 1185s
1164675 368239	cutoff	86	"	825.00000	691.46981	16.2%	4.9 1190s
1171157 369385	731.33969	57	56	825.00000	691.85024	16.1%	4.9 1195s
1177198 370679	cutoff	80		825.00000	692.16939	16.1%	4.9 1200s
1182597 371669	cutoff	57		825.00000	692.44856	16.1%	4.9 1205s
1187880 372664	733.77677	75	48	825.00000	692.74578	16.0%	4.9 1210s
1193566 373688	704.69152	93	71	825.00000	693.06249	16.0%	4.9 1215s
1200513 375118	722.61692	69	58	825.00000	693.40564		4.9 1220s
1206452 376116		71		825.00000	693.73060	15.9%	4.9 1225s
1210531 376877	808.10713	62	54	825.00000	693.92228		4.9 1230s
1217304 378068	755.92404	55	42	825.00000	694.29148	15.8%	4.9 1235s
1223171 379030 1227073 379690	715.97212	68 79	56	825.00000	694.58925	15.8%	4.9 1240s
1232435 380847	729.29587	78 63	47	825.00000 825.00000	694.82020 695.06910	15.8% 15.7%	4.9 1245s 4.9 1250s
1237637 381885	800.34606	71	46	825.00000	695.33837	15.7%	4.9 1250s 4.9 1255s
1243127 382844		71	40	825.00000	695.60430		4.9 1260s
1248334 383781	cutoff	62		825.00000	695.87811	15.7%	4.9 1265s
1252958 384610	cutoff	50		825.00000	696.11533	15.6%	4.9 1270s
1258545 385729	cutoff	79		825.00000	696.40721	15.6%	5.0 1275s
1264615 386969	cutoff	93		825.00000	696.72009	15.5%	5.0 1280s
1267573 387372	infeasible	92		825.00000	696.88445	15.5%	5.0 1285s
1274183 388637	745.61348	69	50	825.00000	697.18085	15.5%	5.0 1290s
1279895 389738	796.66298	62	42	825.00000	697.44907		5.0 1295s
1286015 390804	733.66672	58	60	825.00000	697.75770	15.4%	5.0 1300s
1290302 391688	cutoff	69		825.00000	697.93857		5.0 1305s
1296816 393234	cutoff	57		825.00000	698.22772	15.4%	5.0 1310s
1301599 393990	cutoff	60		825.00000	698.45540		5.0 1315s
1306985 395071 1311856 396006	cutoff 736.68926	64 65	E 1	825.00000	698.72168	15.3%	5.0 1320s
1311856 396006	cutoff	64	54	825.00000 825.00000	698.94878 699.21761	15.3% 15.2%	5.0 1325s 5.0 1330s
1322502 397670	cutoff	94		825.00000	699.43423		5.0 1335s
1329332 399054	711.68926	50	54	825.00000	699.73274		5.0 1340s
,			٠.				2.0 _2.03

•	0/2010						145	_00	
	1335008	400062	cutoff	54		825.00000	699.99097	15.2%	5.0 1345s
	1339702	400782	764.10926	61	58	825.00000	700.21671	15.1%	5.0 1350s
	1345691		792.78146	65	62	825.00000	700.48973	15.1%	5.0 1355s
			infeasible	72		825.00000	700.73608	15.1%	5.0 1360s
	1357347		746.85581	61	42	825.00000	701.01274	15.0%	5.0 1365s
	1361971		800.15973	54	26	825.00000	701.24083	15.0%	5.0 1370s
	1368886		729.10271	60	16	825.00000	701.55481	15.0%	5.0 1375s
	1374931 1380732		cutoff	71 77	67	825.00000	701.82429	14.9%	5.0 1380s
	1386104		732.25448 802.21920	92	67 54	825.00000 825.00000	702.07413 702.33764	14.9% 14.9%	5.0 1385s 5.0 1390s
	1392171		cutoff	62	54	825.00000	702.53764	14.8%	5.0 1396s 5.0 1395s
	1397138		cutoff	67		825.00000	702.81139	14.8%	5.0 1400s
	1402580		cutoff	79		825.00000	703.04236	14.8%	5.0 1405s
			infeasible	75		825.00000	703.28878	14.8%	5.0 1410s
	1413851	413076	cutoff	74		825.00000	703.54273	14.7%	5.0 1415s
	1420682	414451	cutoff	81		825.00000	703.84171	14.7%	5.0 1420s
	1424657		791.51941	49	47	825.00000	704.02436	14.7%	5.0 1425s
	1430881		707.34710	55	61	825.00000	704.29728	14.6%	5.0 1430s
	1436167		744.86517	54	59	825.00000	704.51234	14.6%	5.0 1435s
	1441259		cutoff	74	C1	825.00000	704.74358	14.6%	5.0 1440s
	1446383		739.47561	75 75	61	825.00000	704.97334	14.5%	5.0 1445s
	1451809 1456880		719.16554 760.57462	75 68	52 45	825.00000 825.00000	705.20833 705.40614	14.5% 14.5%	5.0 1450s 5.0 1455s
	1462524		811.11710	74	43 43	825.00000	705.40614	14.5%	5.0 1455S 5.0 1460s
	1469046		740.55914	51	48	825.00000	705.92392	14.3%	5.0 1465s
	1474558		783.15401	65	74	825.00000	706.16859	14.4%	5.0 1470s
	1480196		770.84253	97	53	825.00000	706.40245	14.4%	5.0 1475s
	1485809		cutoff	68		825.00000	706.61593	14.3%	5.0 1480s
	1492453		721.16658	66	43	825.00000	706.87919	14.3%	5.0 1485s
	1498162	426501	800.08182	51	54	825.00000	707.10859	14.3%	5.0 1490s
	1502942		789.28147	73	15	825.00000	707.33481	14.3%	5.0 1495s
	1508777		771.17326	57	52	825.00000	707.57223	14.2%	5.0 1500s
	1515469		cutoff	69		825.00000	707.85633	14.2%	5.0 1505s
	1522036		724.32389	85	59	825.00000	708.12904	14.2%	5.0 1510s
	1527890		818.43316	62	44	825.00000	708.36012	14.1%	5.0 1515s
	1535146 1541744		766.06944	76	42	825.00000	708.64795	14.1% 14.1%	5.0 1520s 5.0 1525s
	1541744		715.14822 740.44848	61 63	53 47	825.00000 825.00000	708.94026 709.20445	14.1%	5.0 1525S 5.0 1530S
	1554556		738.41970	77	58	825.00000	709.42792	14.0%	5.0 1535s
	1559799		787.77131	60	54	825.00000	709.63742	14.0%	5.0 1540s
	1567190		777.56583	60	58	825.00000	709.93804	13.9%	5.0 1545s
	1574141	437440	737.81509	61	50	825.00000	710.21307	13.9%	5.0 1550s
	1580738	438330	734.28021	71	50	825.00000	710.46041	13.9%	5.0 1555s
	1588859		815.86684	83	17	825.00000	710.76343	13.8%	5.0 1560s
	1595747		724.11376	49	51	825.00000	711.01654	13.8%	5.0 1565s
	1600880		787.12272	63	60	825.00000	711.21499	13.8%	5.0 1570s
	1609094		737.11884	67	57	825.00000	711.54271	13.8%	5.0 1575s
	1612995 1620119		cutoff	72 74	42	825.00000	711.67991	13.7%	5.0 1580s
	1625237		804.79758 cutoff	74 85	42	825.00000 825.00000	711.95317 712.13578	13.7% 13.7%	5.0 1585s 5.0 1590s
	1632282		780.39277	68	20	825.00000	712.37799	13.7%	5.0 1595s
	1639086		cutoff	68		825.00000	712.64067	13.6%	5.0 1600s
	1645566		734.38763	62	48	825.00000	712.88081	13.6%	5.0 1605s
	1652898		770.20389	67	42	825.00000	713.14707	13.6%	5.0 1610s
	1659570	449817	722.63684	65	57	825.00000	713.37508	13.5%	5.0 1615s
	1666386	450826	726.50942	62	44	825.00000	713.62221	13.5%	5.0 1620s
	1674215		768.81911	55	45	825.00000	713.92426	13.5%	5.0 1625s
	1680700		754.04003	70	42	825.00000	714.15474	13.4%	5.0 1630s
	1684247		756.47976	59	53	825.00000	714.27797	13.4%	5.0 1635s
	1690178		767.25129	68	43	825.00000	714.48969	13.4%	5.0 1640s
	1696505		772.68364	81 76	42 62	825.00000	714.71713	13.4%	5.0 1645s
	1703176 1708692		769.76035 cutoff	76 76	63	825.00000 825.00000	714.93876 715.17338	13.3%	5.0 1650s 5.0 1655s
	1708692		cutoff	76 87		825.00000	715.17338	13.3% 13.3%	5.0 1655S 5.0 1660s
	1710193		794.33362	87 79	46	825.00000	715.42245	13.3%	5.0 1665s
	1727570		786.72132	51	44	825.00000	715.82709	13.2%	5.0 1670s
	1733577		717.72871	81	66	825.00000	716.05037	13.2%	5.0 1675s
	1739266		719.08812	73	65	825.00000	716.24939	13.2%	5.0 1680s
	1747037		746.83949	80	51	825.00000	716.54382	13.1%	5.0 1686s
	1753074		796.27574	80	53	825.00000	716.75260	13.1%	5.0 1690s
	1759196	462033	805.83915	61	42	825.00000	716.97601	13.1%	5.0 1695s

1764403 462	2697	795.09965	61	58	825.00000	717.14709	13.1%	5.0	1700s
1769152 463		cutoff	60		825.00000	717.32589			1705s
1777248 464		802.89304	54	73	825.00000	717.60535			1710s
1782057 464	1473	cutoff	63		825.00000	717.80644	13.0%		1715s
1788155 465	5035	cutoff	46		825.00000	718.02602	13.0%	5.0	1720s
1794355 465	5778	786.01520	66	18	825.00000	718.24552	12.9%	5.1	1725s
1800220 466	5502	801.81326	75	55	825.00000	718.44283	12.9%	5.1	1730s
1805240 466	5983	764.56669	65	42	825.00000	718.61202	12.9%	5.1	1735s
1811214 467	7739	728.76388	67	32	825.00000	718.80867	12.9%	5.1	1740s
1818446 468	3568	725.08747	53	42	825.00000	719.06812	12.8%	5.1	1745s
1824523 469		cutoff	90		825.00000	719.26381	12.8%	5.1	1750s
1830750 469	9984	cutoff	60		825.00000	719.48400		5.1	1755s
1837229 470	9589	infeasible	60		825.00000	719.70985		5.1	1760s
1843110 471	L199	795.72986	70	54	825.00000	719.88670	12.7%		1765s
1850145 472		784.91505	73	60	825.00000	720.15271			1770s
1858034 472		cutoff	97		825.00000	720.42139			1775s
1863246 473		735.95254	105	53	825.00000	720.60576			1780s
1870348 473		755.24731	82	20	825.00000	720.83446			1785s
1874472 474		755.72479	88	57	825.00000	720.99693			1790s
1881280 474		cutoff	94		825.00000	721.22103			1795s
1886518 475		798.16397	62	55	825.00000	721.38905			1800s
1891822 475		cutoff	64		825.00000	721.57819			1805s
1898835 476		756.48073	50	46	825.00000	721.81365			1810s
1902318 476		cutoff	57		825.00000	721.93277			1815s
1909727 477		cutoff	83		825.00000	722.17941			1820s
1914349 477		cutoff	81	Ε0	825.00000	722.34068			1825s
1921698 478 1928105 478		813.04124 730.40837	64 54	50 51	825.00000 825.00000	722.58203 722.80463			1830s 1835s
1933681 479			79	21	825.00000	722.80463			1840s
1939360 479			58		825.00000	722.99003			1845s
1944974 486		741.33930	71	54	825.00000	723.35453			1850s
1950313 480		777.71767	76	42	825.00000	723.53258			1855s
1956570 481		776.67325	79	56	825.00000	723.74858			1860s
1962044 481			83	30	825.00000	723.93952			1865s
1969357 482		747.08836	78	64	825.00000	724.17182			1870s
1975005 482		742.77629	66	65	825.00000	724.35333			1875s
1980484 483		746.30810	60	18	825.00000	724.52356			1880s
1985410 483		821.32842	71	34	825.00000	724.68018			1885s
1992930 484		755.99929	70	64	825.00000	724.90263			1890s
1997828 485	5086	780.13115	57	47	825.00000	725.06297			1895s
2004163 485	5542	753.79673	66	58	825.00000	725.24930	12.1%	5.1	1900s
2009696 485	5990	818.01710	53	37	825.00000	725.42822	12.1%	5.1	1905s
2016440 486	5471	cutoff	70		825.00000	725.64191	12.0%	5.1	1910s
2020688 486	5824	778.18512	72	55	825.00000	725.78692	12.0%	5.1	1915s
2027031 487		812.79519	45	54	825.00000	725.97765			1920s
2032435 487		cutoff	51		825.00000	726.15952		5.1	1925s
2037673 488		732.03122	79	54	825.00000	726.33371			1930s
2043138 488		cutoff	46		825.00000	726.49448			1935s
2049108 489		cutoff	57		825.00000	726.68436			1940s
2055635 489		756.35534	56	46	825.00000	726.87968			1945s
2062690 490		748.59508	71	55	825.00000	727.08813			1950s
2069480 490		757.68285	84	50	825.00000	727.29488			1955s
2076482 491		cutoff	58 72	F1	825.00000	727.51256			1960s 1965s
2080901 491		776.66272 758.83344	72 90	51 51	825.00000 825.00000	727.64400 727.83400			
2086714 491 2092359 492		736.01170	58	62	825.00000	727.83400			1970s 1975s
2098653 492		cutoff	57	02	825.00000	728.21236			1980s
2103839 493		739.60691	62	52	825.00000	728.37909			1985s
2110464 493		732.97978	61	61	825.00000	728.59018			1990s
2114756 493		cutoff	71	01	825.00000	728.72081			1995s
2120442 494		cutoff	58		825.00000	728.86662			2000s
2125373 494		753.02187	74	43	825.00000	729.02668			2005s
2130816 494			68	.5	825.00000	729.19560			2010s
2136445 495		cutoff	77		825.00000	729.37115			2015s
2142464 495		751.90815	67	44	825.00000	729.55694			2021s
2147872 496		cutoff	76		825.00000	729.72124			2025s
2152983 496		794.81461	85	52	825.00000	729.87519			2030s
2158061 496		790.55664	72	46	825.00000	730.02996			2035s
2162323 497		791.04472	56	47	825.00000	730.15113			2040s
2166893 497	7334	cutoff	66		825.00000	730.28787	11.5%	5.1	2045s
2172234 497	7565	743.79324	63	51	825.00000	730.45835	11.5%	5.1	2050s

2176832	497739	764.58641	85	35	825.00000	730.60260	11.4%	5.1	2055s
2182079	497989	cutoff	80		825.00000	730.76336	11.4%	5.1	2060s
2187647		cutoff	53		825.00000	730.93783	11.4%		2065s
2191811	498577	infeasible	79		825.00000	731.06704	11.4%		2070s
2198294		cutoff	60		825.00000	731.27039	11.4%	5.1	2075s
2205069	499220	794.41829	57	47	825.00000	731.49059	11.3%	5.1	2080s
2212130		731.82455	61	65	825.00000	731.71206	11.3%		2085s
2217543		797.89488	78	43	825.00000	731.88892	11.3%		2090s
2223447		cutoff	53		825.00000	732.07738	11.3%		2095s
2228655		797.28582	73	57	825.00000	732.22903	11.2%		2100s
2233525		cutoff	60		825.00000	732.36707	11.2%		2105s
2237536		cutoff	70		825.00000	732.49201	11.2%		2110s
2243689		811.81739	55	56	825.00000	732.68680	11.2%		2115s
2249627	500878	745.99259	84	43	825.00000	732.87200	11.2%		2120s
2255721	501174	821.40428	89	67	825.00000	733.05170	11.1%	5.1	2125s
2260061	501227	770.40007	68	51	825.00000	733.19604	11.1%		2130s
2266046	501615	739.00186	62	21	825.00000	733.36134	11.1%		2135s
2271692	501776	cutoff	72		825.00000	733.53501	11.1%		2140s
2279509		794.01447	62	44	825.00000	733.74410	11.1%		2145s
2284652		cutoff	63		825.00000	733.90120	11.0%	5.1	2150s
2290089		cutoff	67		825.00000	734.05938	11.0%		2155s
2296313	502763	768.67751	80	37	825.00000	734.23321	11.0%		2160s
2302677		735.55338	72	44	825.00000	734.43054	11.0%	5.1	2165s
2308882		765.35664	73	43	825.00000	734.60818	11.0%		2170s
2314228		cutoff	97		825.00000	734.76876	10.9%		2175s
2320720		cutoff	61		825.00000	734.95879	10.9%		2180s
2325848		749.54178	72	50	825.00000	735.11674	10.9%		2185s
2331254		cutoff	76		825.00000	735.26459	10.9%		2190s
2338483		cutoff	93		825.00000	735.47919	10.9%		2195s
2344813		742.18893	91	44	825.00000	735.65438	10.8%		2200s
2350978		cutoff	59		825.00000	735.84119	10.8%		2205s
2356612		748.09119	52	49	825.00000	736.01800	10.8%		2210s
2362842		751.67816	62	58	825.00000	736.19997	10.8%		2215s
2368687		812.23845	52	44	825.00000	736.36112	10.7%		2220s
2375065		773.35819	53	50	825.00000	736.55737	10.7%		2225s
2380062		798.22125	55	53	825.00000	736.70124	10.7%		2230s
2385650		763.80038	58	58	825.00000	736.84785	10.7%		2235s
2391203		cutoff	89		825.00000	737.01645	10.7%		2240s
2395419	505863	cutoff	81		825.00000	737.13746	10.7%	5.1	2245s
2402784		798.34428	73	43	825.00000	737.34676	10.6%		2250s
2408665		cutoff	70		825.00000	737.52736	10.6%		2255s
2415012		742.97635	60	68	825.00000	737.70042	10.6%	5.1	2260s
2420734	506304	760.77187	72	43	825.00000	737.87363	10.6%		2265s
2425485	506333	801.91822	57	42	825.00000	738.01255	10.5%		2270s
2432482		750.98159	57	48	825.00000	738.21307	10.5%		2275s
2437169	506589	cutoff	50		825.00000	738.34072	10.5%	5.1	2280s
2444142	506802	cutoff	75		825.00000	738.54722	10.5%	5.1	2285s
2449292	506888	804.32184	62	50	825.00000	738.69865	10.5%	5.1	2290s
2456833	506959	cutoff	54		825.00000	738.90640	10.4%	5.1	2295s
2461649	506900	811.17691	57	47	825.00000	739.04617	10.4%	5.1	2300s
2468985	507027	766.30838	70	50	825.00000	739.24157	10.4%	5.1	2305s
2474679	507121	cutoff	91		825.00000	739.39861	10.4%	5.1	2310s
2480574	507254	cutoff	59		825.00000	739.56019	10.4%	5.1	2315s
2486498	507395	cutoff	77		825.00000	739.71972	10.3%	5.1	2320s
2493120	507499	753.76957	80	55	825.00000	739.90366	10.3%	5.1	2325s
2500373	507603	792.26826	74	56	825.00000	740.09625	10.3%	5.1	2330s
2505852	507754	813.26773	72	47	825.00000	740.22726	10.3%	5.1	2335s
2511933	507740	754.03282	67	47	825.00000	740.40518	10.3%	5.1	2340s
2517837	507787	cutoff	66		825.00000	740.56774	10.2%	5.1	2345s
2523302	507679	779.79199	67	43	825.00000	740.71892	10.2%	5.1	2350s
2530620	507692	cutoff	78		825.00000	740.92850	10.2%	5.1	2355s
2535426	507571	795.24221	58	67	825.00000	741.06544	10.2%		2360s
2542289		cutoff	79		825.00000	741.25283	10.2%		2365s
		infeasible	70		825.00000	741.34006	10.1%		2370s
2553783		776.80315	73	53	825.00000	741.56935	10.1%		2375s
2558723		815.39617	58	46	825.00000	741.70972	10.1%		2380s
2564846		771.62133	65	42	825.00000	741.88363	10.1%		2385s
2571788		cutoff	60		825.00000	742.06411	10.1%		2390s
2576986		cutoff	64		825.00000	742.19723	10.0%		2395s
2583496		793.07506	56	42	825.00000	742.36354	10.0%		2400s
2589888		742.67681	79	22	825.00000	742.54752	10.0%		2405s

2595654 5074	.05	791.62634	69	50	825.00000	742.69955	10.0%	5.1	2410s
2600886 5073		cutoff	63	50	825.00000	742.85754	10.0%		2415s
2607925 5071							9.93%		2420s
			54		825.00000	743.04739			
2613455 5070		760.39384	80	61	825.00000	743.18838	9.92%		2425s
2620195 5070	95	767.60316	89	55	825.00000	743.36208	9.90%	5.1	2430s
2626520 5071	45	cutoff	63		825.00000	743.52471	9.88%	5.1	2435s
2631578 5069	44	797.27920	61	43	825.00000	743.65640	9.86%	5.1	2440s
2638689 5068		cutoff	44		825.00000	743.86142	9.83%		2445s
		777.06224	58	44					
2645229 5066				44	825.00000	744.04488	9.81%		2450s
2652468 5066		cutoff	57		825.00000	744.23103	9.79%		2455s
2658381 5064	68	747.91521	83	46	825.00000	744.38654	9.77%		2460s
2664599 5063	30	756.02908	56	51	825.00000	744.56473	9.75%	5.1	2465s
2671550 5062	.08	749.19353	63	55	825.00000	744.75241	9.73%	5.1	2470s
2676743 5059	44		76		825.00000	744.90695	9.71%		2475s
2683508 5059		762.55660	54	51	825.00000	745.08859	9.69%		2480s
2688589 5056		803.73139	73	41	825.00000	745.24506	9.67%		2485s
2692840 5054		756.80218	57	52	825.00000	745.35685	9.65%		2490s
2699182 5053		762.04192	67	61	825.00000	745.52349	9.63%	5.1	2495s
2704592 5053	04	789.54859	68	58	825.00000	745.66444	9.62%	5.1	2500s
2708791 5050		767.27033	99	50	825.00000	745.77767	9.60%	5.1	2505s
2714781 5049		cutoff	76	50	825.00000	745.92633	9.58%		2510s
				4 -					2515s
2721243 5048		776.35999	53	45	825.00000	746.09695	9.56%		
2725863 5048		788.92604	57	52	825.00000	746.22747	9.55%		2520s
2733265 5046	49	cutoff	57		825.00000	746.43444	9.52%	5.1	2525s
2738350 5048	03	770.94945	90	46	825.00000	746.55875	9.51%	5.1	2530s
2743658 5045	59	cutoff	80		825.00000	746.69730	9.49%	5.1	2535s
2750069 5043		cutoff	60		825.00000	746.86941	9.47%		2540s
2757749 5044		cutoff	68		825.00000	747.05758	9.45%		2545s
2763095 5041		cutoff	66		825.00000	747.19486	9.43%		2550s
2769672 5039	14		90		825.00000	747.37064	9.41%		2555s
2774529 5036	70	cutoff	119		825.00000	747.51669	9.39%	5.1	2560s
2781746 5036	11	766.34057	58	74	825.00000	747.70016	9.37%	5.1	2565s
2787154 5032	43	759.34692	69	43	825.00000	747.85766	9.35%	5.1	2570s
2793521 5030		cutoff	70		825.00000	748.03266	9.33%		2575s
2800571 5029		805.11260	51	52	825.00000	748.21844	9.31%		2580s
				32					
2807259 5030		cutoff	76		825.00000	748.37717	9.29%		2585s
2812935 5028		780.55519	52	55	825.00000	748.53764	9.27%		2590s
2818918 5023		797.92380	94	57	825.00000	748.70024	9.25%	5.1	2595s
2824431 5022	.02	748.84336	60	65	825.00000	748.84336	9.23%	5.1	2600s
2830469 5020	12	788.12739	52	48	825.00000	749.00692	9.21%	5.1	2605s
2836421 5016		802.67170	56	48	825.00000	749.17987	9.19%		2610s
2844142 5013		cutoff	61	40	825.00000	749.37654	9.17%		2615s
	_			4.5					
2849357 5010		781.54004	66	45	825.00000	749.52443	9.15%		2620s
2856187 5005		cutoff	80		825.00000	749.70298	9.13%		2625s
2862142 5000	67	763.18391	87	55	825.00000	749.88339	9.11%	5.1	2630s
2868724 4998	30	765.22500	61	47	825.00000	750.06361	9.08%	5.1	2635s
2874593 4994	97	cutoff	82		825.00000	750.21002	9.07%		2640s
2881657 4992		751.53208	62	40	825.00000	750.38793	9.04%		2645s
2886980 4990		753.34598	54	52	825.00000	750.53214	9.03%		2650s
2894184 4987		762.74764	67	51	825.00000	750.71726	9.00%		2655s
2899203 4982	_	789.15844	77	53	825.00000	750.86938	8.99%		2660s
2906399 4979	14	776.98724	68	51	825.00000	751.06022	8.96%	5.1	2665s
2912562 4975	77	813.84732	100	52	825.00000	751.22316	8.94%	5.1	2670s
2919552 4972	12	805.07818	90	45	825.00000	751.40318	8.92%		2675s
2925129 4969		cutoff	66		825.00000	751.55248	8.90%		2680s
2930133 4966		774.81230	44	50	825.00000	751.68851	8.89%		2685s
	_								
2936070 4962		823.68000	80	53	825.00000	751.86271	8.87%		2690s
2942439 4959	59	cutoff	78		825.00000	752.02650	8.85%	5.1	2695s
2949165 4955	75	784.41671	62	47	825.00000	752.19410	8.82%	5.1	2700s
2954454 4952	32	cutoff	73		825.00000	752.32583	8.81%	5.2	2705s
2960469 4947			70		825.00000	752.49793	8.79%		2710s
2967534 4941		757.44140	70	61	825.00000	752.69087	8.76%		2715s
				OI					
2975742 4935		cutoff	58		825.00000	752.90378	8.74%		2720s
2982071 4932		cutoff	74	_	825.00000	753.06316	8.72%		2725s
2988608 4927		810.71119	61	51	825.00000	753.21744	8.70%		2730s
2993838 4924	70	765.96208	67	52	825.00000	753.35521	8.68%	5.2	2735s
3001099 4917	88	cutoff	76		825.00000	753.54762	8.66%	5.2	2740s
3007304 4912		775.93189	80	54	825.00000	753.70605	8.64%		2745s
3012997 4908		771.99249	59	43	825.00000	753.85334	8.62%		2750s
3018739 4904		800.29432	67	43	825.00000	754.00160	8.61%		2755s
				43					
3024786 4900	02	THEASIDIE	65		825.00000	754.16458	8.59%	5.2	2760s

3036987 489283 cutoff 64 82	
	5.00000 754.30189 8.57% 5.2 2765s
	5.00000 754.47920 8.55% 5.2 2770s
	5.00000 754.62891 8.53% 5.2 2775s
	5.00000 754.80628 8.51% 5.2 2780s
	5.00000 754.95797 8.49% 5.2 2785s
3059732 486957 814.73039 62 53 82	5.00000 755.11439 8.47% 5.2 2790s
3064589 486442 infeasible 59 82	5.00000 755.24480 8.46% 5.2 2795s
	5.00000 755.39450 8.44% 5.2 2800s
	5.00000 755.55664 8.42% 5.2 2805s
	5.00000 755.72713 8.40% 5.2 2810s
3088489 484144 infeasible 72 82	5.00000 755.89047 8.38% 5.2 2815s
3094829 483542 758.48124 68 42 82	5.00000 756.05881 8.36% 5.2 2820s
3101476 482858 782.70799 72 43 82	5.00000 756.23520 8.34% 5.2 2825s
	5.00000 756.37812 8.32% 5.2 2830s
	5.00000 756.56854 8.29% 5.2 2835s
	5.00000 756.70689 8.28% 5.2 2840s
3124460 480341 infeasible 51 82	5.00000 756.85243 8.26% 5.2 2845s
3131776 479600 822.26081 61 8 82	5.00000 757.04428 8.24% 5.2 2850s
	5.00000 757.21175 8.22% 5.2 2855s
	5.00000 757.41461 8.19% 5.2 2860s
	5.00000 757.56932 8.17% 5.2 2865s
	5.00000 757.74673 8.15% 5.2 2870s
3164359 475843 818.08337 67 42 82	5.00000 757.93071 8.13% 5.2 2875s
3171607 475005 cutoff 55 82	5.00000 758.13007 8.11% 5.2 2880s
	5.00000 758.27643 8.09% 5.2 2885s
	5.00000 758.45492 8.07% 5.2 2890s
	5.00000 758.62246 8.05% 5.2 2895s
	5.00000 758.78814 8.03% 5.2 2900s
3204476 471447 776.24419 60 42 82	5.00000 758.98238 8.00% 5.2 2905s
3210402 470794 796.82926 61 42 82	5.00000 759.13480 7.98% 5.2 2910s
	5.00000 759.33890 7.96% 5.2 2915s
	5.00000 759.52998 7.94% 5.2 2920s
	5.00000 759.64543 7.92% 5.2 2925s
3236351 467927 783.33649 82 54 82	5.00000 759.81225 7.90% 5.2 2930s
3242670 467233 infeasible 64 82	5.00000 759.98036 7.88% 5.2 2935s
	5.00000 760.16482 7.86% 5.2 2940s
	5.00000 760.31948 7.84% 5.2 2945s
	5.00000 760.49415 7.82% 5.2 2950s
	5.00000 760.65396 7.80% 5.2 2955s
3275409 463147 781.80418 56 43 82	5.00000 760.82849 7.78% 5.2 2960s
3280721 462497 783.06031 59 45 82	5.00000 760.96384 7.76% 5.2 2965s
	5.00000 761.14227 7.74% 5.2 2970s
	5.00000 761.32707 7.72% 5.2 2975s
	5.00000 761.46161 7.70% 5.2 2980s
3306064 458999 infeasible 72 82	5.00000 761.63517 7.68% 5.2 2985s
	J.00000 /01.0331/ /.00% J.2 23033
3312806 458010 cutoff 76 82	
	5.00000 761.81365 7.66% 5.2 2990s
3320989 456865 816.91179 69 59 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3010s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3030s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3035s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3040s 5.00000 763.62653 7.44% 5.2 3040s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3385538 447065 cutoff 75 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3385538 447065 cutoff 75 82 3391134 446239 768.99078 64 61 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3050s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3050s 5.00000 764.10206 7.38% 5.2 3055s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3060s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3065s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.44593 7.34% 5.2 3065s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3060s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.44% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3065s 5.00000 764.44593 7.34% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3070s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.93692 7.40% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3429002 439774 cutoff 56 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.44% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3435334 438699 783.93476 57 65 82 3441912 437627 cutoff 81 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3035s 5.00000 763.78623 7.44% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3435334 438699 783.93476 57 65 82 3447177 436782 cutoff 65 <t< td=""><td>5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3075s 5.00000 764.64637 7.29% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3085s<!--</td--></td></t<>	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3035s 5.00000 763.43465 7.46% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3075s 5.00000 764.64637 7.29% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3085s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3435334 438699 783.93476 57 65 82 3447177 436782 cutoff 65 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3035s 5.00000 763.78623 7.44% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3065s 5.00000 764.64637 7.32% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3397000 445195 771.67789 62 54 82 3404191 444129 cutoff 70 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3425334 438699 783.93476 57 65 82 3447177 436782 cutoff 65 82 3447177 436782 cutoff 65 43 82	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3035s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3075s 5.00000 764.64637 7.29% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3085s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3404191 444129 cutoff 70 82 3409754 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3429002 439774 cutoff 56	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3035s 5.00000 763.78623 7.44% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3085s </td
3320989 456865 816.91179 69 59 82 3326671 455978 cutoff 78 82 3333078 454911 infeasible 69 82 3337741 453888 770.45853 62 59 82 3344626 452986 768.59966 78 16 82 3353601 451884 783.64921 79 46 82 3359601 450994 783.29488 84 42 82 3366275 450116 767.85973 53 61 82 3373138 449155 cutoff 59 82 3380232 448035 cutoff 73 82 3391134 446239 768.99078 64 61 82 3404191 444129 cutoff 70 82 3404794 443160 773.72440 60 43 82 3417178 442001 809.55973 79 58 82 3423408 440936 813.17282 59 42 82 3429002 439774 cutoff 56	5.00000 761.81365 7.66% 5.2 2990s 5.00000 762.03380 7.63% 5.2 2995s 5.00000 762.17927 7.61% 5.2 3000s 5.00000 762.35774 7.59% 5.2 3005s 5.00000 762.50240 7.58% 5.2 3010s 5.00000 762.68910 7.55% 5.2 3015s 5.00000 762.91601 7.53% 5.2 3020s 5.00000 763.07620 7.51% 5.2 3025s 5.00000 763.24812 7.49% 5.2 3030s 5.00000 763.43465 7.46% 5.2 3035s 5.00000 763.78623 7.42% 5.2 3045s 5.00000 763.78623 7.42% 5.2 3055s 5.00000 764.10206 7.38% 5.2 3055s 5.00000 764.28964 7.36% 5.2 3075s 5.00000 764.64637 7.29% 5.2 3075s 5.00000 764.81957 7.29% 5.2 3085s </td

•	0/2010						141	_00		
	3477037	431337	cutoff	54		825.00000	766.29705	7.12%	5.2	3120s
	3484635	429861	cutoff	70		825.00000	766.50207	7.09%	5.2	3125s
	3491714	428552	cutoff	89		825.00000	766.69956	7.07%	5.2	3130s
	3497408		cutoff	67		825.00000	766.85155	7.05%		3135s
	3504150		cutoff	63		825.00000	767.02348	7.03%		3140s
	3508895		cutoff	73		825.00000	767.15678	7.01%		3145s
	3514248		814.02918	78	62	825.00000	767.31068	6.99%		3150s
	3520991		cutoff	45	40	825.00000	767.49815	6.97%		3155s
	3527101		773.42595	87	42	825.00000	767.67684	6.95%		3160s 3165s
	3533641 3540608		cutoff 796.79396	70 68	42	825.00000 825.00000	767.87282 768.07750	6.92% 6.90%		3170s
	3547307		783.82482	57	46	825.00000	768.26122	6.88%		3175s
	3553802		cutoff	52	40	825.00000	768.43025	6.86%		3180s
	3562132		cutoff	67		825.00000	768.65659	6.83%		3185s
	3569371		cutoff	69		825.00000	768.86816	6.80%		3190s
	3576642	411706	cutoff	55		825.00000	769.07885	6.78%	5.2	3195s
	3582446	410418	cutoff	65		825.00000	769.24532	6.76%	5.2	3200s
	3589561		cutoff	76		825.00000	769.43131	6.74%		3205s
	3594334		802.47847	68	43	825.00000	769.56030	6.72%		3210s
	3602073		813.20325	113	44	825.00000	769.78006	6.69%		3215s
	3609382		cutoff	65		825.00000	769.98576	6.67%		3220s
	3617056		cutoff	64		825.00000	770.20347	6.64%		3225s
	3623387		cutoff	75 63		825.00000	770.37914	6.62%		3230s
	3630042 3637380		cutoff cutoff	63 66		825.00000 825.00000	770.56143 770.77625	6.60% 6.57%		3235s 3240s
	3643734		cutoff	74		825.00000	770.77623	6.55%		3246S
	3651096		cutoff	70		825.00000	771.17735	6.52%		3250s
	3657787		787.59814	58	44	825.00000	771.36403	6.50%		3255s
	3664854		802.15983	54	20	825.00000	771.55739	6.48%		3260s
	3670882		773.44096	47	66	825.00000	771.76116	6.45%		3265s
	3677082	388817	792.86150	60	62	825.00000	771.95768	6.43%		3270s
	3682077	387590	cutoff	73		825.00000	772.11337	6.41%	5.2	3275s
	3689645		cutoff	80		825.00000	772.33441	6.38%		3280s
	3697069		785.76166	61	54	825.00000	772.56019	6.36%		3285s
	3705328		cutoff	70		825.00000	772.81726	6.33%		3290s
	3712309		cutoff	68	47	825.00000	773.02848	6.30%		3295s
	3718406		777.04112	52 75	47	825.00000	773.20512	6.28%		3300s
	3726064 3731472		cutoff 785.61737	75 68	52	825.00000 825.00000	773.41391 773.57729	6.25% 6.23%		3305s 3310s
	3736520		cutoff	66	32	825.00000	773.74424	6.21%		3315s
	3743563		cutoff	60		825.00000	773.95888	6.19%		3320s
	3750805		807.55778	57	64	825.00000	774.18190	6.16%		3325s
	3758360		813.31366	90	51	825.00000	774.40740	6.13%	5.2	3330s
	3765492		cutoff	73		825.00000	774.62275	6.11%	5.2	3335s
	3772764		cutoff	61		825.00000	774.85972	6.08%		3340s
	3779993		785.58498	75	55	825.00000	775.08547	6.05%		3345s
	3787057		791.99176	69	61	825.00000	775.29422	6.02%		3350s
	3791945		cutoff	67		825.00000	775.44439	6.01%		3355s
	3799224		infeasible cutoff	68 85		825.00000 825.00000	775.67442 775.87062	5.98%		3360s
	3813023		783.97258	75	54	825.00000	776.10618	5.96% 5.93%		3365s 3370s
	3818375		798.22432	64	49	825.00000	776.27447	5.91%		3375s
	3826706		cutoff	59	72	825.00000	776.53211	5.87%		3380s
			infeasible	57		825.00000	776.71484	5.85%		3385s
	3841084	345158	cutoff	72		825.00000	776.99199	5.82%		3390s
	3847793	343208	cutoff	67		825.00000	777.20497	5.79%	5.2	3395s
	3854692	341136	815.91236	72	45	825.00000	777.42839	5.77%	5.2	3400s
	3863176		cutoff	58		825.00000	777.69525	5.73%		3405s
	3870277		813.09892	61	42	825.00000	777.92304	5.71%		3410s
	3878294		783.39541	68	60	825.00000	778.19066	5.67%		3415s
	3885513		cutoff	65		825.00000	778.42845	5.65%		3420s
	3893283		785.97017	67 65	55 53	825.00000	778.69657	5.61%		3425s
	3901309 3910278		781.65631 784.47840	65 76	53 60	825.00000 825.00000	778.95849 779.24736	5.58% 5.55%		3430s 3435s
	3910278		784.47840 cutoff	76 82	60	825.00000	779.24736	5.55%		3435S 3440s
	3925474		cutoff	67		825.00000	779.46993	5.48%		3445s
	3932469		811.30879	68	51	825.00000	779.99541	5.46%		3450s
	3941498		781.06630	52	53	825.00000	780.29553	5.42%		3455s
	3950429		cutoff	78	-	825.00000	780.56528	5.39%		3460s
	3958935	308496	799.21281	57	67	825.00000	780.86424	5.35%		3465s
	3966348	306150	782.79958	49	58	825.00000	781.11957	5.32%	5.2	3470s

3974733	303483	cutoff	83		825.00000	781.38584	5.29%	5.2 3475s
3982768	300820	cutoff	60		825.00000	781.66869	5.25%	5.2 3480s
3991439	297686	808.10208	52	50	825.00000	781.99369	5.21%	5.2 3485s
3999206	294927	cutoff	89		825.00000	782.25738	5.18%	5.2 3490s
4006823			70		825.00000	782.52140	5.15%	5.2 3495s
4012098	290304		72		825.00000	782.71742	5.13%	5.2 3500s
4019668	287236		78		825.00000	783.02056	5.09%	5.2 3505s
4027862			74		825.00000	783.30437	5.05%	5.2 3510s
4035207			86	55	825.00000	783.55445	5.02%	5.2 3515s
4042490			73		825.00000	783.84313	4.99%	5.2 3520s
4048555			94		825.00000	784.07770	4.96%	5.2 3525s
4055662			71		825.00000	784.33461	4.93%	5.2 3530s
4062656			53		825.00000	784.61939	4.89%	5.2 3535s
		infeasible	62		825.00000	784.82774	4.87%	5.2 3540s
4073976	266844	cutoff	63		825.00000	785.07806	4.84%	5.2 3545s
4081613	263916	cutoff	85		825.00000	785.37663	4.80%	5.2 3550s
4087594			72		825.00000	785.59823	4.78%	5.2 3555s
		infeasible	68		825.00000	785.92395	4.74%	5.2 3560s
4103559			81		825.00000	786.19696	4.70%	5.2 3565s
4110279	252843	791.94775	79	49	825.00000	786.45207	4.67%	5.2 3570s
4116677	250321	infeasible	94		825.00000	786.70685	4.64%	5.2 3575s
4124624	247181	814.20788	73	17	825.00000	787.01564	4.60%	5.2 3580s
4132425	244192	cutoff	61		825.00000	787.30640	4.57%	5.2 3585s
4139292	241223		83	45	825.00000	787.60128	4.53%	5.2 3590s
4146861			54	35	825.00000	787.94113	4.49%	5.2 3595s
		infeasible	75		825.00000	788.21555	4.46%	5.2 3600s
4160508			63	47	825.00000	788.51588	4.42%	5.2 3605s
4167102			87	60	825.00000	788.80893	4.39%	5.2 3610s
4175086			67	38	825.00000	789.14159	4.35%	5.2 3615s
4182636			89		825.00000	789.46820	4.31%	5.2 3620s
		infeasible	64		825.00000	789.79548	4.27%	5.2 3625s
4196330			60		825.00000	790.09646	4.23%	5.2 3630s
4204335	212472	infeasible	104		825.00000	790.43952	4.19%	5.2 3635s
		infeasible	86		825.00000	790.84119	4.14%	5.2 3640s
4221208			70		825.00000	791.21838	4.09%	5.2 3645s
4229772	200943	793.18646	70	51	825.00000	791.63212	4.04%	5.2 3650s
4236785			58	53	825.00000	791.99887	4.00%	5.2 3655s
4244499	193924		59		825.00000	792.35542	3.96%	5.2 3660s
4252081	189991	805.03371	67	54	825.00000	792.76118	3.91%	5.2 3665s
4259567	186489	cutoff	55		825.00000	793.13320	3.86%	5.2 3670s
4266737	182881	cutoff	53		825.00000	793.50991	3.82%	5.2 3675s
4273146	179520	cutoff	55		825.00000	793.85992	3.77%	5.2 3680s
4281005	175396	cutoff	73		825.00000	794.31482	3.72%	5.2 3685s
4288143	171651	infeasible	60		825.00000	794.72480	3.67%	5.2 3690s
4295233	167907	cutoff	54		825.00000	795.12745	3.62%	5.2 3695s
4302568	164059	cutoff	116		825.00000	795.56144	3.57%	5.2 3700s
4309123	160331	cutoff	78		825.00000	795.97920	3.52%	5.2 3705s
4316253	156641	infeasible	76		825.00000	796.39799	3.47%	5.2 3710s
4323487	152344	cutoff	59		825.00000	796.87358	3.41%	5.2 3715s
4330311	148458	cutoff	111		825.00000	797.30225	3.36%	5.2 3720s
4339070	143329	798.15175	47	67	825.00000	797.89909	3.28%	5.2 3725s
4345440	139876	cutoff	47		825.00000	798.30880	3.24%	5.2 3730s
4352772	135529	cutoff	81		825.00000	798.81273	3.17%	5.2 3735s
4360026	131358	cutoff	69		825.00000	799.32166	3.11%	5.2 3740s
4367588	126870	cutoff	65		825.00000	799.89032	3.04%	5.2 3745s
4375220	122616	814.05367	50	53	825.00000	800.42591	2.98%	5.2 3750s
4382843	117967	infeasible	60		825.00000	801.02355	2.91%	5.2 3755s
4389730	113854	cutoff	72		825.00000	801.54522	2.84%	5.2 3760s
4396823	109248	cutoff	76		825.00000	802.14668	2.77%	5.2 3765s
4405712	103629	infeasible	83		825.00000	802.91900	2.68%	5.2 3770s
4413144	99269	cutoff	81		825.00000	803.52662	2.60%	5.2 3775s
4419799	95056	805.79958	52	58	825.00000	804.12720	2.53%	5.2 3780s
4425714	91370	infeasible	57		825.00000	804.65359	2.47%	5.2 3785s
4434139	86046	cutoff	63		825.00000	805.45953	2.37%	5.2 3790s
4441879		807.74371	60	75	825.00000	806.26913	2.27%	5.2 3795s
4448028	76557	cutoff	82		825.00000	806.94805	2.19%	5.2 3800s
4455008	71777	cutoff	53		825.00000	807.71751	2.09%	5.2 3805s
4463216	66057	cutoff	59		825.00000	808.66464	1.98%	5.2 3810s
4468792		cutoff	89		825.00000	809.32804	1.90%	5.2 3815s
4476087		cutoff	78		825.00000	810.26272	1.79%	5.2 3820s
		infeasible	102		825.00000	811.57643	1.63%	5.2 3825s

```
4495178 42151
                                                                    5.2 3830s
                   cutoff
                                      825.00000 813.14638 1.44%
 4503996 34986
                   cutoff
                            89
                                      825.00000 814.68643 1.25%
                                                                    5.2 3835s
 4513469 27148
                   cutoff
                            61
                                      825.00000 816.53710 1.03%
                                                                    5.2 3840s
                                      825.00000 818.63439 0.77%
 4522741 19012
                   cutoff
                            73
                                                                    5.1 3845s
                                      825.00000 821.67657 0.40%
                                                                    5.1 3850s
 4534064 8547 infeasible
                            80
Cutting planes:
  Gomory: 117
  Cover: 310
  MIR: 66
  Flow cover: 9
  GUB cover: 3
  Zero half: 4
  Mod-K: 2
Explored 4542880 nodes (23298436 simplex iterations) in 3853.57 seconds
Thread count was 4 (of 64 available processors)
Optimal solution found (tolerance 1.00e-04)
Best objective 8.250000000000e+02, best bound 8.250000000000e+02, gap 0.0%
Optimize a model with 1702 rows, 1719 columns and 19002 nonzeros
Coefficient statistics:
  Matrix range
                  [9e-01, 1e+08]
  Objective range [1e+00, 1e+00]
  Bounds range
                  [1e+00, 1e+00]
                  [1e+00, 2e+03]
  RHS range
                                             Dual Inf.
                                                            Time
Iteration
             Objective
                             Primal Inf.
              handle free variables
       а
                                                              05
      24
            8.2500000e+02
                           0.000000e+00
                                            0.000000e+00
                                                              0s
Solved in 24 iterations and 0.00 seconds
Optimal objective 8.250000000e+02
Gurobi 6.5.0: optimal solution; objective 825
23298436 simplex iterations
4542880 branch-and-cut nodes
plus 24 simplex iterations for intbasis
       BX LX DX
12
   1
        1
12 2
        1
12 3
        1
30
   1
        1
30
   2
30 3
163 1
            1
                0
163 2
            1
                0
163 3
            1
                0
                0
166 1
            1
166 2
                0
            1
                0
166 3
            1
187 1
            1
                0
187 2
            1
                0
187 3
            1
                0
260 1
            0
                1
260 2
            0
                1
260 3
            0
                1
266 1
            0
                1
266 2
            0
                1
266 3
            0
                1
;
                   RY
                       LY
                           DY
                                  :=
McDonalds
                1
                        0
                            0
                    1
McDonalds
                        0
                2
                    1
McDonalds
                3
                        0
                            0
                    1
'Salad Works'
                1
                    0
                        1
                            0
'Salad Works'
                2
                    0
                        1
                            0
'Salad Works'
                3
                    0
                        1
                            0
                        0
Wendys
                    a
                            1
                1
                        0
Wendys
                2
                    а
                            1
Wendys
                3
                    0
                        0
                            1
```

```
nutrSlack :=
Calories 1
             -230
Calories 2
             -230
Calories 3
             -230
Carbsg
        1
              -15
         2
Carbsg
              -15
         3
Carbsg
              -15
         1
Fatg
               -1
Fatg
         2
               -1
         3
Fatg
               -1
Fiberg
         1
               -2
Fiberg
         2
               -2
Fiberg
         3
               -2
ProteinG 1
              -21
ProteinG 2
              -21
ProteinG 3
              -21
               -3
Sugarg
         1
               -3
Sugarg
         2
Sugarg
         3
               -3
sum{b in breakfastFoods, t in days} bcost[b]*BX[b,t] + sum{1 in lunchFoods,
  t in days} lcost[1]*LX[1,t] + sum{d in dinnerFoods, t in days} dcost[d]*DX[d
  ,t] = 91.65
0.01*(sum\{r \text{ in restaurants, t in days}\} (BY[r,t] + LY[r,t] + DY[r,t])) = 0.09
sum{n in nutrients, t in days} nutrSlackVar[n,t] = 816
sum{b in breakfastFoods} bcost[b]*BX[b,1] + sum{l in lunchFoods} lcost[l]*LX[
  1,1] + sum{d in dinnerFoods} dcost[d]*DX[d,1] = 30.55
sum{b in breakfastFoods} bcost[b]*BX[b,2] + sum{1 in lunchFoods} lcost[l]*LX[
  1,2] + sum{d in dinnerFoods} dcost[d]*DX[d,2] = 30.55
sum{b in breakfastFoods} bcost[b]*BX[b,3] + sum{l in lunchFoods} lcost[l]*LX[
  1,3] + sum{d in dinnerFoods} dcost[d]*DX[d,3] = 30.55
sum{b in breakfastFoods, t in days} bcost[b]*BX[b,t] + sum{l in lunchFoods,
  t in days} lcost[1]*LX[1,t] + sum{d in dinnerFoods, t in days} dcost[d]*DX[d
  ,t] = 91.65
sum{b in breakfastFoods} bnutr[b,'Calories']*BX[b,1] + sum{l in lunchFoods}
  lnutr[1, 'Calories']*LX[1,1] + sum{d in dinnerFoods} dnutr[d, 'Calories']*DX[
  d,1] = 2170
sum{b in breakfastFoods} bnutr[b,'Calories']*BX[b,2] + sum{l in lunchFoods}
  lnutr[1,'Calories']*LX[1,2] + sum{d in dinnerFoods} dnutr[d,'Calories']*DX[
  d,2] = 2170
sum{b in breakfastFoods} bnutr[b, 'Calories']*BX[b,3] + sum{l in lunchFoods}
  lnutr[1, 'Calories']*LX[1,3] + sum{d in dinnerFoods} dnutr[d, 'Calories']*DX[
  d,3] = 2170
```