

# 1 Characteristics Model

All Instances - Part 1											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(U)	0.82088	4224.9	0.003999	4672	4.9329e-05	372	473	844	388
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(I)	4.3723	4224.9	0.033995	4397.6	0	372	795	1538	552
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(L)	1.2978	4224.9	0.032995	4397.6	8.4941e-05	372	795	1166	502
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(P)	2.5296	4224.9	0.006999	4648.5	0	372	473	844	1179
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(STM)	243.32	4224.9	0.14698	4637.1	9.923e-05	372	795	1538	41127
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(U)	2.6876	4455.8	0.002999	4942.9	5.6573e-05	401	502	902	933
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(I)	4.3633	4455.8	0.036994	4656	0	401	853	1654	591
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(L)	3.5345	4455.8	0.025996	4656	4.7189e-05	401	853	1253	664
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(P)	2.5386	4455.8	0.006999	4920.9	9.7884e-05	401	502	902	1126
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(STM)	143.38	4455.8	0.12698	4924.3	9.9813e-05	401	853	1654	22215
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(U)	2.9486	4739.8	0.003	5186.5	0	412	513	924	721
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(I)	7.7388	4739.8	0.041993	4933.7	7.6874e-05	412	875	1698	953
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(L)	5.2312	4739.8	0.020996	4933.7	8.4036e-05	412	875	1286	995
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(P)	4.0694	4739.8	0.006999	5163.8	8.1625e-05	412	513	924	1847
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(STM)	151.59	4739.8	0.16698	5157.2	9.9922e-05	412	875	1698	32419
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(U)	2.1407	4409.4	0.002999	4872.7	7.1922e-05	381	482	862	866
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(I)	4.8183	4409.4	0.036995	4572.9	5.7928e-06	381	813	1574	901
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(L)	3.4945	4409.4	0.026996	4572.9	0	381	813	1193	685
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(P)	2.5846	4409.4	0.009999	4827.2	7.9543e-05	381	482	862	1498
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(STM)	32.424	4409.4	0.11898	4816.4	9.3046e-05	381	813	1574	6559
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(U)	0.26496	4059.3	0.003999	4433.1	4.2461e-05	370	471	840	148
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(I)	1.1318	4059.3	0.034995	4206.3	6.0428e-05	370	791	1530	465
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(L)	0.6449	4059.3	0.015998	4206.3	9.7152e-05	370	791	1160	271
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(P)	1.1558	4059.3	0.006999	4397.1	0	370	471	840	519
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(STM)	14.797	4059.3	0.14498	4441.3	9.283e-05	370	791	1530	2342
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(U)	3.6964	4663	0.002999	5225.9	8.1434e-05	377	478	854	1092
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(I)	5.9081	4663	0.036995	4881	9.115e-05	377	805	1558	1013
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(L)	4.1914	4663	0.021997	4881	9.4093e-05	377	805	1181	975
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(P)	6.82	4663	0.009999	5201.2	9.8596e-05	377	478	854	3099
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(STM)	1092.6	4663	0.089986	5191.2	9.9964e-05	377	805	1558	196042
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(U)	3.0435	4032.1	0.001	4580.5	8.4468e-05	381	482	862	768
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(I)	6.567	4032.1	0.032995	4327.6	9.0941e-05	381	813	1574	793
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(L)	4.0274	4032.1	0.016997	4327.6	0	381	813	1193	760
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(P)	3.7504	4032.1	0.007999	4541.9	9.4785e-05	381	482	862	2016
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(STM)	123.61	4032.1	0.12798	4533.3	9.9873e-05	381	813	1574	24337
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(U)	1.8967	4339.1	0.001	4750.3	8.0607e-05	412	513	924	541
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(I)	3.4815	4339.2	0.036994	4507.6	0	412	875	1698	571
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(L)	1.8977	4339.1	0.032995	4507.6	0	412	875	1286	562
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(P)	1.8797	4339.1	0.007998	4735.8	9.0044e-05	412	513	924	841
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(STM)	122.45	4339.1	0.19897	4721.7	9.9903e-05	412	875	1698	16943
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(U)	4.4843	4449	0.003	5002.1	9.3107e-05	409	510	918	1612
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(I)	9.6295	4449	0.041994	4702.4	9.7124e-05	409	869	1686	1233
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(L)	5.9661	4449	0.024996	4702.4	8.6498e-05	409	869	1277	1142
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(P)	4.9662	4449	0.009999	4960.2	9.4477e-05	409	510	918	2680
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(STM)	555.81	4449	0.12798	4947.9	9.9885e-05	409	869	1686	123252
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(U)	0.51692	4623.6	0.002	5126.5	9.2691e-05	390	491	880	330
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(I)	0.72089	4623.6	0.034995	4836.3	3.5915e-05	390	831	1610	120
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(L)	0.78888	4623.6	0.021997	4836.3	7.9991e-05	390	831	1220	340
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(P)	1.6478	4623.6	0.006999	5097.8	0	390	491	880	755
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(STM)	14.05	4623.6	0.13098	5074.1	8.8293e-05	390	831	1610	2118
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(U)	1.1958	4686.1	0.002	5140.1	2.0189e-05	384	485	868	728
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(I)	1.8857	4686.1	0.035994	4860.8	9.1624e-05	384	819	1586	571
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(L)	1.7227	4686.1	0.021997	4860.8	9.0563e-05	384	819	1202	831
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(P)	2.6326	4686.1	0.009998	5112.6	0	384	485	868	1056
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(STM)	20.521	4686.1	0.10398	5102.2	9.9628e-05	384	819	1586	3645
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(U)	4.2564	4137.8	0.003	4676	7.3969e-05	384	485	868	1514
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(I)	13.976	4137.8	0.044993	4415.7	8.3735e-05	384	819	1586	1910
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(L)	5.6341	4137.8	0.028995	4415.7	4.2777e-05	384	819	1202	1470
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(P)	3.8194	4137.8	0.007999	4644.4	6.1338e-05	384	485	868	1727
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(STM)	768.94	4137.8	0.10898	4645.9	9.9722e-05	384	819	1586	131586
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(U)	2.1957	3817.7	0.002	4262.6	9.4969e-05	395	496	890	687
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(I)	5.6661	3817.7	0.022996	4053.1	-4.7646e-16	395	841	1630	769
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(L)	4.0294	3817.7	0.014998	4053.1	5.2432e-05	395	841	1235	857
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(P)	2.1117	3817.7	0.006	4226.2	0	395	496	890	1021
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(STM)	24.767	3817.7	0.097985	4229.5	8.9804e-05	395	841	1630	5210
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(U)	3.2885	3788.2	0.003	4347.2	9.4574e-05	404	505	908	969
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(I)	5.8921	3788.2	0.039994	4041.6	0	404	859	1666	954
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(L)	3.4505	3788.2	0.027996	4041.6	8.7565e-05	404	859	1262	762
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(P)	3.6214	3788.2	0.006999	4315.4	6.2954e-05	404	505	908	2284
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(STM)	105.59	3788.2	0.11098	4285.8	9.7197e-05	404	859	1666	22152
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(U)	3.1115	4362.4	0.001	4876.1	7.8342e-05	389	490	878	889
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(I)	6.1731	4362.4	0.031995	4596.1	5.8528e-05	389	829	1606	697
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(L)	4.2254	4362.4	0.023996	4596.1	6.6675e-05	389	829	1217	763
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(P)	4.2774	4362.4	0.006999	4842.6	5.6725e-05	389	490	878	1653
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(STM)	252.08	4362.4	0.12098	4838.8	9.9981e-05	389	829	1606	41659
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(U)	10.604	4127.7	0.002	4591	7.7841e-05	372	473	844	3875
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(I)	12.868	4127.7	0.027995	4347	6.7961e-05	372	795	1538	2253
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(L)	13.309	4127.7	0.023996	4347	9.8951e-05	372	795	1166	4942
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(P)	16.912	4127.7	0.006999	4573.6	9.8975e-05	372	473	844	11446
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(STM)	2426.1	4127.7	0.12998	4565.6	9.9962e-05	372	795	1538	513655

All Instances - Part 2											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(U)	1.1358	4440.8	0.003	4893.5	1.7221e-05	381	482	862	759
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(I)	3.4605	4440.8	0.041994	4668.5	0	381	813	1574	593
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(L)	3.3635	4440.8	0.023996	4668.5	0	381	813	1193	597
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(P)	2.0797	4440.8	0.008999	4865.3	8.3822e-05	381	482	862	1076
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(STM)	31.382	4440.8	0.12198	4895.7	9.4178e-05	381	813	1574	6080
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(U)	5.0132	4112.8	0.004	4642.6	8.9766e-05	383	484	866	1559
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(I)	7.7388	4112.8	0.06599	4331.3	8.6589e-05	383	817	1582	955
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(L)	5.4292	4112.8	0.033995	4331.3	9.8068e-05	383	817	1199	937
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(P)	5.1552	4112.8	0.006999	4618.3	9.5524e-05	383	484	866	2908
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(STM)	206.8	4112.8	0.10199	4587.2	9.9887e-05	383	817	1582	45422
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(U)	5.1352	4022.7	0.002999	4519.6	8.6691e-05	390	491	880	2417
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(I)	14.239	4022.7	0.037994	4244.6	9.8201e-05	390	831	1610	3528
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(L)	7.8618	4022.7	0.018997	4244.6	9.2076e-05	390	831	1220	2978
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(P)	6.245	4022.7	0.005999	4457.7	9.5992e-05	390	491	880	5027
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(STM)	491.86	4022.7	0.097985	4515.8	9.9815e-05	390	831	1610	136629
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(U)	3.8914	4523.1	0.002	5030.2	2.3083e-05	380	481	860	1265
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(I)	6.777	4523.1	0.032995	4769.2	8.9528e-05	380	811	1570	1359
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(L)	4.3683	4523.1	0.026996	4769.2	4.8418e-05	380	811	1190	1166
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(P)	4.6833	4523.1	0.008999	5015	9.7981e-05	380	481	860	2744
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(STM)	303.95	4523.1	0.097985	4981.3	9.8494e-05	380	811	1570	53397
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(U)	11.515	8141.1	0.005999	9035.3	9.956e-05	795	996	1790	2000
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(I)	24.364	8141.1	0.10498	8505.8	7.5228e-05	795	1691	3280	1364
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(L)	13.311	8141.1	0.06699	8505.8	9.8929e-05	795	1691	2485	1398
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(P)	28.054	8141.1	0.017997	8951.5	9.7093e-05	795	996	1790	8644
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600	8141.1	0.33595	8988.4	0.0093791	795	1691	3280	232775
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(U)	48.489	8617.1	0.006999	9522.4	9.9972e-05	836	1037	1872	9536
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(I)	90.894	8617.1	0.10798	9061.7	9.8934e-05	836	1773	3444	8085
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(L)	78.003	8617.1	0.072989	9061.7	9.9196e-05	836	1773	2608	10499
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.1	Optimal	(P)	125.45	8617.1	0.023996	9454.8	9.9349e-05	836	1037	1872	40381
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600	8617.1	0.46693	9518	0.0098125	836	1773	3444	246368
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(U)	126.13	8092.5	0.009999	9090.7	9.9201e-05	786	987	1772	20827
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(I)	233.23	8092.5	0.12398	8513.4	9.7884e-05	786	1673	3244	20463
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(L)	89.679	8092.5	0.054992	8513.4	9.9861e-05	786	1673	2458	12261
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(P)	1962.6	8092.5	0.022996	9030	9.9986e-05	786	987	1772	807659
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600	8092.5	0.50492	8955.8	0.011499	786	1673	3244	263878
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(U)	35.404	8713.3	0.006999	9714.1	9.9805e-05	798	999	1796	7640
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(I)	91.781	8713.3	0.14898	9139.4	9.7747e-05	798	1697	3292	7815
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(L)	46.862	8713.3	0.081988	9139.4	9.9462e-05	798	1697	2494	7059
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(P)	214.4	8713.3	0.025996	9644.8	9.9703e-05	798	999	1796	83485
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600	8713.3	0.58191	9672.5	0.013953	798	1697	3292	213810
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(U)	71.81	8503.5	0.006999	9420.6	9.9919e-05	819	1020	1838	12960
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(I)	104.22	8503.5	0.11098	8954.5	9.9065e-05	819	1739	3376	10712
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(L)	70.679	8503.5	0.057991	8954.5	9.9562e-05	819	1739	2557	11089
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(P)	355.8	8503.5	0.017998	9360.9	9.9905e-05	819	1020	1838	148065
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.1	8503.5	0.57391	9381.5	0.011309	819	1739	3376	322801
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(U)	7.4009	8897.5	0.003999	9911.8	9.537e-05	802	1003	1804	710
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(I)	13.289	8897.5	0.074989	9260	9.4068e-05	802	1705	3308	820
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(L)	7.9318	8897.5	0.058991	9260	4.9994e-05	802	1705	2506	587
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(P)	10.863	8897.5	0.019997	9835.5	9.9674e-05	802	1003	1804	2264
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600	8897.5	0.43094	9828.6	0.0051951	802	1705	3308	149101
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(U)	20.797	8411.3	0.005999	9270.2	2.2981e-05	800	1001	1800	4295
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(I)	40.27	8411.3	0.10198	8788.4	9.9389e-05	800	1701	3300	4411
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(L)	26.513	8411.3	0.052992	8788.4	9.9647e-05	800	1701	2500	4240
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.6	Optimal	(P)	82.431	8411.3	0.026996	9173.5	9.9863e-05	800	1001	1800	33074
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600	8411.3	0.45193	9222.9	0.0057415	800	1701	3300	304822
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(U)	20.961	8797.6	0.003999	9822	9.4662e-05	821	1022	1842	2675
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(I)	38.389	8797.6	0.10698	9266	9.6024e-05	821	1743	3384	2483
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(L)	36.33	8797.6	0.087986	9266	9.4715e-05	821	1743	2563	4237
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(P)	113.82	8797.6	0.018997	9738.5	9.97e-05	821	1022	1842	35297
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600	8797.6	0.44893	9765.5	0.012284	821	1743	3384	177813
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(U)	28.481	9165	0.006998	10246	9.2037e-05	792	993	1784	3761
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(I)	34.409	9165	0.088987	9610.1	9.5266e-05	792	1685	3268	2626
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(L)	24.207	9165	0.06599	9610.1	9.8879e-05	792	1685	2476	3037
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.8	Optimal	(P)	56.278	9165	0.026996	10181	9.9352e-05	792	993	1784	14738
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.1	9165	0.44293	10111	0.014558	792	1685	3268	198414
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(U)	357.12	8781.7	0.009998	9870.5	9.9817e-05	785	986	1770	62074
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(I)	1043.4	8781.7	0.11698	9337	9.9998e-05	785	1671	3240	92651
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(L)	558.11	8781.7	0.06399	9337	9.9963e-05	785	1671	2455	105191
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(P)	1448.8	8781.7	0.022997	9810	9.9965e-05	785	986	1770	662996
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600	8781.7	0.6829	9770.2	0.020989	785	1671	3240	175058
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(U)	11.22	9037.9	0.006999	9990.8	8.8382e-05	756	957	1712	2116
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(I)	22.103	9037.9	0.096985	9354.1	9.9907e-05	756	1613	3124	1417
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(L)	14.274	9037.9	0.06599	9354.1	9.6428e-05	756	1613	2368	1454
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.10	Optimal	(P)	39.956	9037.9	0.015998	9953.1	9.9749e-05	756	957	1712	13473
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.2	9037.9	0.49592	9917.2	0.0093294	756	1613	3124	206441
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(U)	138.77	8096.2	0.005999	9072.1	9.979e-05	770	971	1740	33100
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(I)	324.43	8096.2	0.12098	8542.8	9.9731e-05	770	1641	3180	37416
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(L)	133.08	8096.2	0.060991	8542.8	9.9937e-05	770	1641	2410	23903
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(P)	328.93	8096.2	0.021996	9008	9.9899e-05	770	971	1740	110522
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600	8096.2	0.45793	9018.8	0.015614	770	1641	3180	197717

All Instances - Part 3											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(U)	15.922	8434.1	0.005999	9400.6	9.3449e-05	798	999	1796	3091
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(I)	30.259	8434.1	0.098985	8841.7	9.9851e-05	798	1697	3292	2293
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(L)	20.61	8434.1	0.061991	8841.7	8.9479e-05	798	1697	2494	2636
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(P)	29.852	8434.1	0.020997	9317.8	9.89e-05	798	999	1796	9159
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600	8434.1	0.48993	9337	0.008576	798	1697	3292	223210
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(U)	13.602	9195.9	0.007999	10108	9.697e-05	794	995	1788	2360
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(I)	22.79	9195.9	0.12198	9563.7	6.7934e-05	794	1689	3276	1455
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(L)	10.339	9195.9	0.072989	9563.7	6.5023e-05	794	1689	2482	897
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.13	Optimal	(P)	47.085	9195.9	0.019997	10036	9.9508e-05	794	995	1788	12379
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600	9195.9	0.37094	10065	0.0062494	794	1689	3276	322026
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(U)	723.42	8568.1	0.006999	9686.7	9.9849e-05	790	991	1780	142425
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(I)	984.2	8568.1	0.10798	9080.9	9.9877e-05	790	1681	3260	82193
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(L)	718.69	8568.1	0.099985	9080.9	9.9987e-05	790	1681	2470	115182
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(P)	2675	8568.1	0.024997	9614	9.9968e-05	790	991	1780	982667
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.1	8566.6	0.46893	9561.5	0.027551	790	1681	3260	144002
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(U)	13.232	8020.8	0.004999	8804.9	9.7136e-05	753	954	1706	2996
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(I)	31.134	8020.8	0.14098	8350.2	9.9365e-05	753	1607	3112	2835
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(L)	11.539	8020.8	0.053992	8350.2	9.9986e-05	753	1607	2359	1639
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(P)	30.5	8020.8	0.017998	8738.8	9.9191e-05	753	954	1706	10228
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600	8020.8	0.46393	8796.6	0.0028044	753	1607	3112	286695
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(U)	83.661	8800.7	0.009999	9833	9.977e-05	787	987	1774	16077
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(I)	103.44	8800.7	0.12698	9266.5	9.9887e-05	787	1674	3248	9098
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(L)	117.61	8800.7	0.063991	9266.5	9.9665e-05	787	1674	2461	18220
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(P)	251.89	8800.7	0.022996	9782	9.9893e-05	787	987	1774	96050
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600	8800.7	0.48493	9737.2	0.022557	787	1674	3248	137141
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(U)	287.92	8603.2	0.008999	9674.7	9.991e-05	838	1039	1876	55803
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(I)	513.9	8603.2	0.12098	9069.6	9.9973e-05	838	1777	3452	41127
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(L)	251.47	8603.2	0.081988	9069.6	9.9836e-05	838	1777	2614	42123
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(P)	1773.3	8603.2	0.025996	9599.7	9.9983e-05	838	1039	1876	626570
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600	8603.2	0.61591	9568.9	0.021993	838	1777	3452	182853
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(U)	134.09	7987.4	0.006999	8929.8	9.9671e-05	815	1016	1830	23681
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(I)	148.21	7987.4	0.11198	8416.9	9.9931e-05	815	1731	3360	11869
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(L)	96.812	7987.4	0.051992	8416.9	9.9347e-05	815	1731	2545	13585
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(P)	265.1	7987.4	0.020997	8881.1	9.993e-05	815	1016	1830	103386
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600	7987.4	0.53192	8810.5	0.02009	815	1731	3360	132041
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(U)	35.172	9250.4	0.005	10135	9.9161e-05	829	1030	1858	7823
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(I)	40.57	9250.4	0.10698	9643.6	9.7634e-05	829	1759	3416	4666
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(L)	18.254	9250.4	0.06899	9643.6	9.8932e-05	829	1759	2587	2728
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(P)	111.11	9250.4	0.021996	10072	9.9594e-05	829	1030	1858	38656
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600	9250.4	0.6399	10048	0.010591	829	1759	3416	199581
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(U)	64.684	12955	0.011998	14189	9.9872e-05	1173	1474	2646	8732
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(I)	146.24	12955	0.24996	13481	9.9932e-05	1173	2497	4842	9145
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(L)	94.831	12955	0.12898	13481	9.9729e-05	1173	2497	3669	11388
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.0	Optimal	(P)	305.66	12955	0.034994	14063	9.9999e-05	1173	1474	2646	80815
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.1	12955	1.2838	14121	0.015274	1173	2497	4842	93875
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600	12008	0.014998	13806	0.0067091	1136	1437	2572	481070
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.1	12008	0.20697	12877	0.0079626	1136	2423	4694	148168
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600	12008	0.19597	12877	0.0075195	1136	2423	3558	367992
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600	11998	0.028996	13635	0.015745	1136	1437	2572	868001
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.1	11998	1.3348	13606	0.037151	1136	2423	4694	113221
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(U)	626.31	12848	0.011998	14332	9.9962e-05	1163	1464	2626	104411
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(I)	2875	12848	0.19797	13460	9.9994e-05	1163	2477	4802	221943
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.2	Optimal	(L)	1047.7	12848	0.14898	13460	9.9977e-05	1163	2477	3639	150788
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600	12848	0.039994	14218	0.0049172	1163	1464	2626	959911
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.1	12843	1.2958	14176	0.018839	1163	2477	4802	103404
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(U)	2378.2	12001	0.017997	13392	9.999e-05	1196	1496	2692	389516
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600	12001	0.27496	12573	0.00068147	1196	2542	4934	193520
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(L)	2137.4	12001	0.13898	12573	9.9988e-05	1196	2542	3738	341966
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600	12001	0.038994	13244	0.0048875	1196	1496	2692	1037874
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600	12001	1.1958	13348	0.020506	1196	2542	4934	89977
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600	12082	0.013998	13608	0.00081164	1153	1454	2606	479369
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600	12082	0.17497	12790	0.0020671	1153	2457	4762	271490
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(L)	3423.3	12082	0.12098	12790	9.9988e-05	1153	2457	3609	382066
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.3	12082	0.027996	13516	0.0089427	1153	1454	2606	894181
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600	12082	0.90686	13472	0.025217	1153	2457	4762	168873
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(U)	94.622	13282	0.012998	14598	9.9999e-05	1167	1468	2634	14272
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(I)	126.72	13282	0.17497	13847	9.9679e-05	1167	2485	4818	7083
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(L)	68.189	13282	0.12898	13847	9.9792e-05	1167	2485	3651	6260
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(P)	2026.8	13282	0.030995	14500	9.9998e-05	1167	1468	2634	598341
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.1	13282	0.74289	14550	0.016419	1167	2485	4818	124991
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600	13547	0.008998	14988	0.0012332	1210	1511	2720	521377
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.1	13547	0.14298	14170	0.0023433	1210	2571	4990	196522
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.1	13547	0.087987	14170	0.0013804	1210	2571	3780	558812
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600	13547	0.029996	14899	0.0061004	1210	1511	2720	817877
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600	13547	0.84187	14861	0.022747	1210	2571	4990	149922
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(U)	957.03	12555	0.012998	13939	9.9985e-05	1216	1517	2732	143179
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(I)	850.15	12555	0.20697	13162	9.9975e-05	1216	2583	5014	51308
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.7	Optimal	(L)	705.75	12555	0.13198	13162	9.9944e-05	1216	2583	3798	108016
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600	12555	0.027996	13806	0.0053616	1216	1517	2732	919995
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.1	12555	1.4688	13856	0.020725	1216	2583	5014	113818

filename	status	formulation	All Instances - Part 4					edges	columns	rows	nodes
			time	value	relax_time	relax_value	gap				
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600	12970	0.012998	14544	0.0025843	1156	1457	2612	481890
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600	12970	0.26196	13653	0.0032509	1156	2463	4774	258708
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600	12970	0.14998	13653	0.0023565	1156	2463	3618	456812
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600	12970	0.033995	14396	0.0089803	1156	1457	2612	855391
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.1	12970	1.2288	14481	0.025982	1156	2463	4774	167708
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600	13045	0.012998	14848	0.0025973	1206	1507	2712	469005
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600.1	13045	0.18997	13895	0.0021148	1206	2563	4974	288498
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.1	13045	0.17397	13895	0.0028318	1206	2563	3768	425992
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600	13045	0.044993	14695	0.011012	1206	1507	2712	763805
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600	13045	0.93086	14767	0.031818	1206	2563	4974	161998
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600	12235	0.009998	13845	0.0048745	1108	1408	2516	505022
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600	12235	0.19797	13004	0.0050607	1108	2366	4582	223774
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600	12235	0.12698	13004	0.0048364	1108	2366	3474	486586
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600	12235	0.028996	13704	0.010455	1108	1408	2516	995220
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600	12224	1.0228	13737	0.03174	1108	2366	4582	114681
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600	12283	0.020997	13828	0.0083187	1209	1510	2718	427814
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600	12282	0.20997	12999	0.0080299	1209	2569	4986	179121
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600	12283	0.10398	12999	0.0059478	1209	2569	3777	274007
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600	12282	0.039994	13729	0.012702	1209	1510	2718	817514
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600	12283	1.0438	13715	0.035094	1209	2569	4986	150000
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(U)	1198.3	13124	0.014997	14618	9.9961e-05	1209	1510	2718	140128
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(I)	709.45	13124	0.26396	13788	9.9838e-05	1209	2569	4986	37482
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.12	Optimal	(L)	1334.8	13124	0.11298	13788	9.9957e-05	1209	2569	3777	135864
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600	13124	0.044993	14528	0.004552	1209	1510	2718	808908
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.1	13124	1.0798	14536	0.021629	1209	2569	4986	127261
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600	12330	0.014998	13901	0.0047707	1176	1477	2652	333210
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.1	12330	0.25396	12992	0.0055391	1176	2503	4854	158751
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600.1	12330	0.12098	12992	0.0050939	1176	2503	3678	362517
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600	12330	0.032995	13818	0.010048	1176	1477	2652	560190
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600	12324	1.0848	13739	0.03142	1176	2503	4854	102088
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(U)	874.27	12872	0.016997	14397	9.9896e-05	1197	1498	2694	107405
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(I)	770.97	12872	0.16298	13522	9.9984e-05	1197	2545	4938	95624
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(L)	668.85	12872	0.12698	13522	9.9986e-05	1197	2545	3741	99378
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.1	12872	0.027996	14306	0.0046641	1197	1498	2694	916078
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600	12872	1.0258	14306	0.019646	1197	2545	4938	132884
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(U)	1822.6	12575	0.017998	14002	9.9979e-05	1241	1542	2782	296052
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600	12575	0.22397	13182	0.00091419	1241	2633	5114	194333
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.15	Optimal	(L)	3251.8	12575	0.15698	13182	0.0001	1241	2633	3873	461133
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600	12575	0.050992	13908	0.0040356	1241	1542	2782	907401
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600	12575	0.98585	13919	0.021754	1241	2633	5114	127174
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(U)	674.48	12158	0.014998	13311	9.9997e-05	1188	1489	2676	74262
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(I)	723.65	12158	0.25096	12670	9.9755e-05	1188	2527	4902	39630
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(L)	571.15	12158	0.11998	12670	9.9783e-05	1188	2527	3714	52898
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(P)	2862.3	12158	0.039994	13215	9.9997e-05	1188	1489	2676	685405
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600	12157	1.0118	13214	0.014812	1188	2527	4902	94825
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(U)	240.39	13322	0.014998	14654	9.9743e-05	1206	1507	2712	28983
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(I)	288.8	13322	0.20197	13835	9.9992e-05	1206	2563	4974	13546
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(L)	126.7	13322	0.12898	13835	9.9978e-05	1206	2563	3768	14513
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.17	Optimal	(P)	968.43	13322	0.039994	14553	9.9982e-05	1206	1507	2712	285283
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600	13322	1.3198	14543	0.019634	1206	2563	4974	100663
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(U)	1265.3	12602	0.020997	14064	9.9911e-05	1144	1445	2588	140835
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(I)	1610.5	12602	0.19597	13221	9.9952e-05	1144	2439	4726	93810
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(L)	477.91	12602	0.13298	13221	9.9848e-05	1144	2439	3582	47514
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600	12602	0.032995	13929	0.0047621	1144	1445	2588	1047894
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600	12602	0.74489	13905	0.021545	1144	2439	4726	146521
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(U)	69.073	12385	0.009998	13710	9.9278e-05	1186	1487	2672	9649
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(I)	87.985	12385	0.21197	12890	9.6127e-05	1186	2523	4894	4033
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(L)	57.493	12385	0.17797	12890	9.6628e-05	1186	2523	3708	4208
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.19	Optimal	(P)	442	12385	0.034994	13587	9.9976e-05	1186	1487	2672	99319
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600	12381	0.92986	13624	0.012552	1186	2523	4894	115813
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600	16215	0.017998	18130	0.0055344	1418	1819	3236	447491
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600	16215	0.23497	17048	0.0038912	1418	3037	5872	168295
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600	16215	0.16398	17048	0.0032288	1418	3037	4454	281977
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600	16215	0.041994	17926	0.0086935	1418	1819	3236	502121
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600	16215	1.7397	18011	0.026255	1418	3037	5872	93352
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600	16784	0.015998	18569	0.0026734	1421	1822	3242	381161
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600	16784	0.32195	17536	0.0032049	1421	3043	5884	183073
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.1	16784	0.18397	17536	0.00236	1421	3043	4463	421861
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600	16784	0.049993	18454	0.0081239	1421	1822	3242	848460
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600	16781	1.9317	18466	0.023166	1421	3043	5884	127444
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600	16255	0.015997	18165	0.0053456	1411	1810	3222	329723
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600	16255	0.30095	17055	0.0033911	1411	3021	5844	128106
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600	16255	0.15998	17055	0.0040449	1411	3021	4433	226382
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600	16255	0.047993	18004	0.010705	1411	1810	3222	721923
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600	16244	1.3368	17990	0.026643	1411	3021	5844	101257
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(U)	1019	17991	0.015998	19934	9.9969e-05	1425	1826	3250	134562
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(I)	1156.3	17991	0.25296	18764	9.9914e-05	1425	3051	5900	65956
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(L)	731.93	17991	0.13898	18764	9.9956e-05	1425	3051	4475	71376
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600	17991	0.047993	19773	0.0051588	1425	1826	3250	724872
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600	17986	1.6547	19853	0.019093	1425	3051	5900	82289

filename	status	formulation	All Instances - Part 5					edges	columns	rows	nodes
			time	value	relax.time	relax.value	gap				
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600	17053	0.018997	18870	0.0013547	1392	1793	3184	323114
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(I)	2669.5	17053	0.19797	17810	9.9998e-05	1392	2985	5768	158963
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.4	Optimal	(L)	3376.3	17053	0.16498	17810	9.9998e-05	1392	2985	4376	355796
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600	17053	0.045993	18699	0.0042724	1392	1793	3184	683408
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.1	17049	0.91686	18646	0.018891	1392	2985	5768	120874
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(U)	1398.9	16408	0.017997	18318	9.9982e-05	1396	1795	3192	174191
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(I)	2889.5	16408	0.23496	17260	9.9993e-05	1396	2991	5784	164609
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.5	Optimal	(L)	1581.8	16408	0.18597	17260	9.9995e-05	1396	2991	4388	176339
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600	16408	0.048993	18117	0.0068091	1396	1795	3192	590218
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.1	16408	1.3208	18238	0.02292	1396	2991	5784	108496
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600	16918	0.016998	18837	0.0044499	1381	1782	3162	367961
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.1	16918	0.24696	17758	0.00484	1381	2963	5724	153103
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600	16918	0.13698	17758	0.0036828	1381	2963	4343	420222
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600	16918	0.040994	18683	0.010271	1381	1782	3162	750161
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600	16918	1.5888	18617	0.02297	1381	2963	5724	115967
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600	16888	0.013998	18802	0.0039065	1426	1827	3252	305297
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.1	16888	0.24596	17747	0.0025036	1426	3053	5904	190503
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600	16888	0.14398	17747	0.0025347	1426	3053	4478	242117
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600	16888	0.048993	18603	0.0091637	1426	1827	3252	707575
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.1	16888	1.6338	18752	0.026908	1426	3053	5904	75003
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600	16885	0.013998	18704	0.0030935	1370	1770	3140	516781
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600	16885	0.26396	17706	0.0030849	1370	2940	5680	178981
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600	16885	0.12298	17706	0.0027881	1370	2940	4310	340306
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600	16885	0.042994	18487	0.0084962	1370	1770	3140	704771
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600	16885	1.1968	18613	0.019039	1370	2940	5680	147076
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600	16870	0.012998	18812	0.001593	1399	1800	3198	290029
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600	16870	0.30695	17686	0.00044986	1399	2999	5796	164490
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.9	Optimal	(L)	1477.6	16870	0.17597	17686	9.9989e-05	1399	2999	4397	122135
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600	16870	0.051992	18626	0.0078783	1399	1800	3198	679429
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600	16836	1.5158	18654	0.026417	1399	2999	5796	92541
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.1	16109	0.014997	18015	0.0052638	1385	1786	3170	300087
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600	16109	0.27996	16954	0.0044815	1385	2971	5740	157872
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600	16109	0.15298	16954	0.0041865	1385	2971	4355	298413
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.1	16109	0.045993	17848	0.013272	1385	1786	3170	644187
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600	16109	1.6427	17889	0.026876	1385	2971	5740	118636
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600	17731	0.017997	19661	0.00072028	1398	1799	3196	284244
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(I)	3412.4	17731	0.25396	18532	9.9994e-05	1398	2997	5792	161653
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.11	Optimal	(L)	1722	17731	0.17597	18532	9.9943e-05	1398	2997	4394	142926
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.1	17731	0.040994	19441	0.0069976	1398	1799	3196	657526
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600	17731	1.2378	19469	0.017351	1398	2997	5792	149641
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600	16505	0.017997	18538	0.0047816	1416	1817	3232	329185
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.1	16505	0.29796	17335	0.0033101	1416	3033	5864	183683
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.1	16505	0.17597	17335	0.0046748	1416	3033	4448	320067
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600	16505	0.046993	18347	0.010268	1416	1817	3232	754685
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600	16477	1.4378	18258	0.027824	1416	3033	5864	94681
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600	16297	0.014998	18238	0.0037432	1403	1804	3206	353901
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600	16297	0.26596	17143	0.0033018	1403	3007	5812	150001
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600	16297	0.16398	17143	0.0025635	1403	3007	4409	352840
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600	16297	0.045993	18105	0.010994	1403	1804	3206	459936
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600	16294	1.2288	18105	0.026276	1403	3007	5812	106131
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(U)	753.36	17471	0.017997	19466	9.9976e-05	1419	1820	3238	65802
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(I)	1551.8	17471	0.38694	18248	9.9997e-05	1419	3039	5876	76917
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.14	Optimal	(L)	1067.3	17471	0.12898	18248	9.9995e-05	1419	3039	4457	68506
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600	17471	0.049992	19266	0.0037352	1419	1820	3238	601561
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600	17471	2.0577	19228	0.016237	1419	3039	5876	77561
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600	16814	0.016997	18750	0.004972	1414	1815	3228	426979
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600.1	16814	0.34795	17710	0.0057151	1414	3029	5856	141171
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600	16814	0.25296	17710	0.0035927	1414	3029	4442	293905
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600	16814	0.035994	18612	0.0090781	1414	1815	3228	668101
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600	16814	1.8847	18570	0.026732	1414	3029	5856	92231
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600	15860	0.007998	17728	0.0021945	1459	1860	3318	450534
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600	15860	0.21097	16653	0.0013139	1459	3119	6036	273623
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.16	Optimal	(L)	2338.1	15860	0.16798	16653	9.9992e-05	1459	3119	4577	312694
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600	15860	0.047992	17486	0.0074598	1459	1860	3318	788134
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600	15860	1.2158	17632	0.022549	1459	3119	6036	134126
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600	17434	0.010998	19602	0.0053487	1418	1819	3236	304491
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3600	17434	0.23696	18365	0.0057699	1418	3037	5872	147894
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600	17434	0.13798	18365	0.004056	1418	3037	4454	289977
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600	17434	0.022996	19442	0.014051	1418	1819	3236	852191
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600	17406	1.1428	19540	0.033917	1418	3037	5872	123557
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(U)	392.87	16538	0.016997	18206	9.9887e-05	1469	1869	3338	59308
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(I)	595.62	16538	0.26796	17203	9.9919e-05	1469	3138	6076	29263
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.18	Optimal	(L)	532.07	16538	0.14298	17203	9.9914e-05	1469	3138	4607	54570
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600	16538	0.040994	18091	0.0028664	1469	1869	3338	748908
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.1	16538	1.4648	18096	0.022839	1469	3138	6076	76890
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600	17637	0.012998	19463	0.0037271	1450	1851	3300	302607
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600	17637	0.28496	18464	0.004514	1450	3101	6000	106972
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.1	17637	0.17897	18464	0.0034791	1450	3101	4550	372102
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600	17637	0.035995	19358	0.010077	1450	1851	3300	753707
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600	17622	1.5008	19378	0.025211	1450	3101	6000	91131

filename	status	formulation	All Instances - Part 6					edges	columns	rows	nodes
			time	value	relax.time	relax.value	gap				
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.1	19972	0.029995	22352	0.0060325	1827	2328	4154	187003
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.1	19972	0.53092	21021	0.0055595	1827	3905	7558	79601
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.1	19972	0.22097	21021	0.0059444	1827	3905	5731	148062
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600	19972	0.087986	22157	0.012785	1827	2328	4154	458381
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.1	19951	2.8696	22237	0.027909	1827	3905	7558	63321
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600	22664	0.023996	25150	0.0047561	1938	2438	4376	255085
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.1	22664	0.53592	23707	0.0038666	1938	4126	8002	73354
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600	22664	0.28096	23707	0.0034876	1938	4126	6064	168837
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600	22664	0.081987	24973	0.011836	1938	2438	4376	505485
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.1	22659	0.53492	25021	0.025754	1938	4126	8002	73891
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600	21523	0.028996	24051	0.005975	1931	2432	4362	200265
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600.2	21523	0.56491	22687	0.0060553	1931	4113	7974	75208
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.1	21523	0.29596	22687	0.0044726	1931	4113	6043	188797
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.1	21523	0.075989	23794	0.013936	1931	2432	4362	334091
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600	21523	0.6419	23916	0.0252	1931	4113	7974	56949
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600	21807	0.032995	24000	0.001355	1942	2442	4384	221297
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(I)	1860.9	21807	0.41294	22660	9.999e-05	1942	4134	8018	84508
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.3	Optimal	(L)	3167.7	21807	0.27896	22660	9.999e-05	1942	4134	6076	166075
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600	21807	0.075989	23810	0.0054216	1942	2442	4384	541797
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.1	21807	0.50992	23793	0.016324	1942	4134	8018	85971
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600	21392	0.031996	23609	0.0029231	1909	2409	4318	219570
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600	21392	0.49393	22290	0.00071187	1909	4068	7886	89354
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600	21389	0.26796	22290	0.00070975	1909	4068	5977	206428
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.2	21392	0.055992	23457	0.0059426	1909	2409	4318	375933
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.1	21392	0.62191	23408	0.019761	1909	4068	7886	60521
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.1	21470	0.025996	23726	0.00319	1931	2432	4362	240065
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.2	21470	0.44493	22355	0.0024086	1931	4113	7974	93308
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.1	21470	0.36395	22355	0.0018319	1931	4113	6043	166897
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600	21470	0.059991	23552	0.0065351	1931	2432	4362	426565
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600	21470	0.73989	23509	0.018427	1931	4113	7974	56402
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600	21308	0.023996	23799	0.0063481	1920	2421	4340	230471
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600	21305	0.36894	22380	0.0052764	1920	4091	7930	116182
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600	21308	0.20797	22380	0.004926	1920	4091	6010	204511
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600	21308	0.048992	23597	0.012647	1920	2421	4340	633772
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.1	21306	0.53492	23654	0.026601	1920	4091	7930	90008
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600	19932	0.024996	22344	0.0095957	1993	2494	4486	153281
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.1	19917	0.62491	21085	0.011563	1993	4237	8222	64675
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600	19932	0.32695	21085	0.0096025	1993	4237	6229	113791
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600	19932	0.093985	22185	0.016877	1993	2494	4486	423837
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.1	19881	0.62991	22118	0.033781	1993	4237	8222	49771
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600	20802	0.029995	23266	0.013073	1964	2465	4428	217924
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.1	20802	0.42594	21906	0.01051	1964	4179	8106	83321
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.1	20806	0.31995	21906	0.0097215	1964	4179	6142	121727
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.1	20806	0.084987	23093	0.017213	1964	2465	4428	333824
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.1	20766	0.53292	23058	0.031352	1964	4179	8106	65271
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600	20632	0.031995	23106	0.0082872	1879	2380	4258	160976
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600.1	20632	0.49293	21778	0.008141	1879	4009	7766	88606
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600	20638	0.31995	21778	0.0071233	1879	4009	5887	209207
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.1	20632	0.081988	22866	0.015332	1879	2380	4258	382984
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600.2	20623	0.74389	22984	0.030787	1879	4009	7766	86451
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600	22327	0.031995	24664	0.0055349	1894	2395	4288	263489
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.1	22327	0.48593	23275	0.0052451	1894	4039	7826	82001
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600	22327	0.29795	23275	0.0036105	1894	4039	5932	149687
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.1	22327	0.06699	24490	0.010362	1894	2395	4288	455189
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.1	22327	0.45493	24537	0.02328	1894	4039	7826	66201
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.2	21142	0.028995	23695	0.0090919	1978	2479	4456	186871
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.1	21142	0.40994	22320	0.0082315	1978	4207	8162	94991
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600	21142	0.26196	22320	0.0083989	1978	4207	6184	151203
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600	21142	0.057992	23494	0.016222	1978	2479	4456	639171
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600	21142	0.41994	23569	0.029718	1978	4207	8162	64161
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600	20730	0.024996	23039	0.0067989	1964	2465	4428	218824
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.1	20730	0.40694	21733	0.0064884	1964	4179	8106	89631
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600	20730	0.27096	21733	0.0051845	1964	4179	6142	146227
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600	20730	0.071989	22830	0.0111	1964	2465	4428	356024
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.1	20730	0.60391	22870	0.026398	1964	4179	8106	55171
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600	22068	0.022997	24507	0.0054653	1951	2452	4402	191485
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.1	22068	0.55392	23104	0.0052713	1951	4153	8054	64893
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600	22068	0.31195	23104	0.0045016	1951	4153	6103	176002
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600	22068	0.075988	24322	0.01197	1951	2452	4402	339285
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600.1	22068	0.6449	24366	0.026839	1951	4153	8054	63731
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600	21194	0.024997	23412	0.0078716	1976	2477	4452	154165
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3600.1	21194	0.48593	22200	0.0070097	1976	4203	8154	67808
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600.1	21194	0.30595	22200	0.0070067	1976	4203	6178	144192
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600	21194	0.089986	23283	0.011632	1976	2477	4452	418865
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.1	21194	0.6759	23260	0.027442	1976	4203	8154	44153
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600	22345	0.027996	24870	0.0081997	1996	2496	4492	236284
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600.1	22345	0.55892	23471	0.0077073	1996	4242	8234	60292
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600	22345	0.36894	23471	0.0074866	1996	4242	6238	168296
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600	22345	0.091986	24662	0.015772	1996	2496	4492	345484
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600	22340	0.59491	24740	0.029303	1996	4242	8234	70564

filename	status	formulation	All Instances - Part 7					edges	columns	rows	nodes
			time	value	relax_time	relax_value	gap				
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600.1	21068	0.035994	23540	0.0084311	1934	2434	4368	206073
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600.1	21069	0.46793	22186	0.0079784	1934	4118	7986	90125
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3600.1	21069	0.34195	22186	0.0078013	1934	4118	6052	163111
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600	21069	0.076988	23381	0.014824	1934	2434	4368	466073
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600.1	21069	0.74289	23313	0.027976	1934	4118	7986	52925
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600	22017	0.026996	24533	0.010167	1960	2461	4420	224712
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3600.1	22017	0.43493	23163	0.0095279	1960	4171	8090	82607
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600.1	22017	0.30795	23163	0.0098642	1960	4171	6130	187007
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600	22015	0.056991	24360	0.016796	1960	2461	4420	543363
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600.1	21990	0.70789	24321	0.029938	1960	4171	8090	59907
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600	21412	0.032995	23832	0.0094339	1980	2481	4460	221277
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.1	21412	0.53492	22564	0.0077041	1980	4211	8170	93592
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3600.1	21412	0.31495	22564	0.0074705	1980	4211	6190	141412
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.1	21412	0.081987	23680	0.014886	1980	2481	4460	394581
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.1	21412	0.59691	23704	0.03027	1980	4211	8170	60778
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600	20792	0.014998	23141	0.0056652	1882	2383	4264	187395
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600.1	20792	0.32295	21764	0.0056431	1882	4015	7778	81171
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600	20792	0.25196	21764	0.0034396	1882	4015	5896	280967
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600	20792	0.060991	22926	0.010024	1882	2383	4264	568893
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600.1	20786	0.47893	22973	0.024332	1882	4015	7778	75841
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600	25330	0.027996	28348	0.012512	2133	2734	4866	214016
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600	25330	0.6639	26732	0.011112	2133	4567	8832	64531
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.1	25330	0.33195	26732	0.011367	2133	4567	6699	176172
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600	25330	0.10498	28102	0.019369	2133	2734	4866	456716
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.1	25326	0.6419	28171	0.035659	2133	4567	8832	76031
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.1	25052	0.027996	28182	0.012387	2130	2730	4860	186906
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.1	25054	0.53892	26421	0.0094014	2130	4560	8820	70497
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600	25054	0.24996	26421	0.0089484	2130	4560	6690	129111
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600	25054	0.078987	27881	0.019111	2130	2730	4860	334406
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.1	25052	0.97985	28021	0.032329	2130	4560	8820	43871
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600	24843	0.033995	27567	0.0088609	2157	2758	4914	187493
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600.2	24843	0.62191	26003	0.0072074	2157	4615	8928	64009
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600	24843	0.24596	26003	0.0063793	2157	4615	6771	112337
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600	24843	0.081987	27268	0.015137	2157	2758	4914	409793
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.1	24836	0.77588	27381	0.025925	2157	4615	8928	37209
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600	24701	0.029996	27575	0.007795	2147	2748	4894	195518
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.1	24701	0.52192	25916	0.0054941	2147	4595	8888	70889
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3600.1	24701	0.26696	25916	0.0050693	2147	4595	6741	111502
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600	24701	0.081987	27317	0.013469	2147	2748	4894	384518
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.2	24701	0.54692	27364	0.025761	2147	4595	8888	47568
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.1	25667	0.046993	28435	0.0065752	2129	2730	4858	206004
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600	25667	0.48293	26725	0.0038287	2129	4559	8816	74730
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600	25667	0.33895	26725	0.0034257	2129	4559	6687	158649
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600	25667	0.095985	28188	0.009663	2129	2730	4858	387447
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.1	25666	0.6309	28234	0.022309	2129	4559	8816	48616
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.1	24267	0.023996	27277	0.010489	2105	2706	4810	181072
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.1	24263	0.40394	25608	0.011034	2105	4511	8720	68052
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600	24263	0.31795	25608	0.010708	2105	4511	6615	95280
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.1	24267	0.071989	26985	0.018956	2105	2706	4810	467172
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.1	24237	0.60791	27078	0.034104	2105	4511	8720	61021
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600	25723	0.027995	28402	0.0063326	2096	2696	4792	201884
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.1	25723	0.57091	26825	0.0040462	2096	4492	8684	79092
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600	25723	0.26296	26825	0.0040379	2096	4492	6588	159516
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600	25723	0.097985	28192	0.010215	2096	2696	4792	394112
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.1	25722	0.6729	28143	0.022464	2096	4492	8684	41861
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600	24534	0.027996	27224	0.0073479	2049	2648	4698	240392
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.1	24534	0.41594	25617	0.0053521	2049	4397	8496	106419
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600	24534	0.22697	25617	0.0051066	2049	4397	6447	197110
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600	24534	0.077988	26983	0.012138	2049	2648	4698	401077
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.1	24534	0.60491	27003	0.021355	2049	4397	8496	54411
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600	25220	0.027996	28139	0.0087043	2131	2731	4862	186228
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.1	25220	0.44493	26549	0.0072386	2131	4562	8824	88927
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.1	25220	0.24796	26549	0.0067642	2131	4562	6693	220916
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600	25220	0.067989	27885	0.015408	2131	2731	4862	366909
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600	25197	0.54492	27902	0.029228	2131	4562	8824	82884
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600	24115	0.032995	26960	0.0065922	2155	2756	4910	197387
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600.1	24115	0.45793	25310	0.0061398	2155	4611	8920	69101
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.1	24115	0.27496	25310	0.005546	2155	4611	6765	142502
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600	24115	0.090986	26647	0.01416	2155	2756	4910	370187
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600.1	24115	0.74189	26739	0.025141	2155	4611	8920	69401
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.1	26225	0.027996	29184	0.0097616	2221	2822	5042	167770
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.2	26224	0.6469	27491	0.0083721	2221	4743	9184	61388
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600	26224	0.33695	27491	0.0081427	2221	4743	6963	145467
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600	26224	0.091986	29010	0.017002	2221	2822	5042	345443
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.1	26212	0.76588	28943	0.028717	2221	4743	9184	39790
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600	24299	0.031995	27370	0.012399	2120	2721	4840	178177
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.2	24299	0.50792	25588	0.0093368	2120	4541	8780	61302
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600.1	24299	0.32395	25588	0.0088419	2120	4541	6660	109151
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600	24299	0.11098	27137	0.017944	2120	2721	4840	306205
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600	24276	0.70289	27049	0.029996	2120	4541	8780	32320

Table with Means and Standard Deviations - All Instances												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(U)	20	0	3.1164	2.2266	0.0025997	0.00091628	1103	813.89	6.5462e-05	2.9044e-05	0.11385
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(I)	20	0	6.3704	3.7699	0.037594	0.0081683	1039	745.26	5.1719e-05	4.0003e-05	0.050724
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(L)	20	0	4.2234	2.7436	0.024396	0.0053039	1110	1036.4	6.2571e-05	3.5706e-05	0.050713
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(P)	20	0	4.174	3.2842	0.007849	0.0013142	2325.1	2335.6	6.4513e-05	3.9228e-05	0.10673
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(STM)	20	0	356.3	549.05	0.12368	0.025558	71339	1.1468e+05	9.7571e-05	3.6591e-06	0.10591
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(U)	20	0	109.26	168.49	0.006899	0.0017577	20798	32712	9.3871e-05	1.657e-05	0.11284
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(I)	20	0	196.76	298.04	0.11208	0.016414	17290	25894	9.5885e-05	8.3505e-06	0.04909
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(L)	20	0	117.21	184.76	0.06739	0.012272	19098	31938	9.4441e-05	1.2773e-05	0.049092
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(P)	20	0	497.56	767.2	0.021947	0.0031692	1.9198e+05	2.9835e+05	9.956e-05	6.365e-07	0.099306
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.038872	0.49707	0.08411	2.1583e+05	57988	0.013004	0.0064772	0.090305
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(U)	12	8	1953.3	1449	0.014448	0.003232	2.5781e+05	1.9151e+05	0.0016549	0.0024666	0.11445
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(I)	10	10	2209.5	1505	0.21277	0.035504	1.3432e+05	94684	0.001948	0.0025931	0.048757
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(L)	13	7	1958.3	1504.9	0.13578	0.025016	2.3744e+05	1.8673e+05	0.0015631	0.0023238	0.049159
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(P)	5	15	3030.3	1101.8	0.035645	0.0064508	7.4597e+05	2.798e+05	0.0058832	0.004498	0.10064
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.028368	1.074	0.19685	1.2498e+05	24539	0.023225	0.0067839	0.082976
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(U)	4	16	3058.2	1096	0.015548	0.0026918	3.0737e+05	1.1815e+05	0.0029551	0.0019734	0.10445
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(I)	6	14	3133.8	901.44	0.27206	0.044568	1.4926e+05	50210	0.0025186	0.001994	0.045885
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(L)	8	12	2801.4	1119	0.16283	0.027715	2.5823e+05	1.1283e+05	0.0020996	0.001724	0.044052
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.023749	0.044093	0.0065405	6.9209e+05	97172	0.0084186	0.0028663	0.093932
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.0126	1.4825	0.28403	1.0644e+05	22040	0.023906	0.0041665	0.079669
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600	0.034205	0.027896	0.0046349	2.0883e+05	30290	0.0069098	0.0027061	0.10015
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(I)	1	19	3513.1	379.05	0.47793	0.073161	82761	12671	0.0062499	0.0028741	0.042958
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(L)	1	19	3578.4	94.219	0.29591	0.040878	1.7012e+05	35993	0.0056342	0.0028273	0.04353
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.03748	0.073989	0.013078	4.4718e+05	94421	0.012606	0.0035232	0.090225
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.1	0.03154	0.71404	0.50315	65099	11981	0.02657	0.0043344	0.076818
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600	0.012031	0.032345	0.0054515	1.9498e+05	24362	0.0076576	0.0025724	0.10547
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.1	0.042438	0.53692	0.088031	76803	15725	0.0062447	0.0024261	0.039443
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600	0.024551	0.2983	0.04443	1.3976e+05	31708	0.0058823	0.0024468	0.041959
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.010909	0.089986	0.016181	3.8705e+05	42430	0.013516	0.003441	0.08881
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.1	0.030594	0.71819	0.11902	55743	15139	0.026006	0.004388	0.077525

Table with Means and Standard Deviations - Only solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(U)	20	0	3.1164	2.2266	0.0025997	0.00091628	1103	813.89	6.5462e-05	2.9044e-05	0.11385
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(I)	20	0	6.3704	3.7699	0.037594	0.0081683	1039	745.26	5.1719e-05	4.0003e-05	0.050724
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(L)	20	0	4.2234	2.7436	0.024396	0.0053039	1110	1036.4	6.2571e-05	3.5706e-05	0.050713
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(P)	20	0	4.174	3.2842	0.007849	0.0013142	2325.1	2335.6	6.4513e-05	3.9228e-05	0.10673
c-n=50-c=14-p=7-o=8-l=1-h=100-d=0.25	(STM)	20	0	356.3	549.05	0.12368	0.025558	71339	1.1468e+05	9.7571e-05	3.6591e-06	0.10591
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(U)	20	0	109.26	168.49	0.006899	0.0017577	20798	32712	9.3871e-05	1.657e-05	0.11284
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(I)	20	0	196.76	298.04	0.11208	0.016414	17290	25894	9.5885e-05	8.3505e-06	0.04909
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(L)	20	0	117.21	184.76	0.06739	0.012272	19098	31938	9.4441e-05	1.2773e-05	0.049092
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(P)	20	0	497.56	767.2	0.021947	0.0031692	1.9198e+05	2.9835e+05	9.956e-05	6.365e-07	0.099306
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(U)	12	0	855.44	697.41	0.014914	0.0030124	1.2145e+05	1.1236e+05	9.9881e-05	1.9494e-07	0.10818
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(I)	10	0	818.95	813.97	0.21177	0.031643	57360	63437	9.9523e-05	1.1368e-06	0.044961
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(L)	13	0	1074.3	1118.7	0.13506	0.016719	1.3969e+05	1.4938e+05	9.9661e-05	8.8027e-07	0.046449
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(P)	5	0	1321	979.94	0.036194	0.003429	3.4983e+05	2.5046e+05	9.999e-05	9.6534e-09	0.090632
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(U)	4	0	891.02	367.9	0.017247	0.00082878	1.0847e+05	48056	9.9954e-05	3.8612e-08	0.10976
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(I)	6	0	2045.9	1008.9	0.26579	0.058504	1.0956e+05	54159	9.9969e-05	3.7194e-08	0.044765
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(L)	8	0	1603.4	859.36	0.16023	0.019257	1.6304e+05	1.066e+05	9.9973e-05	2.9411e-08	0.045839
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(I)	1	0	1860.9	0	0.41294	0	84508	0	9.999e-05	0	0.038983
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(L)	1	0	3167.7	0	0.27896	0	1.6608e+05	0	9.999e-05	0	0.038983

Table with Means and Standard Deviations - Only not solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
c-n=100-c=19-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.038872	0.49707	0.08411	2.1583e+05	57988	0.013004	0.0064772	0.090305
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(U)	0	8	3600	0.0078062	0.013748	0.0034184	4.6234e+05	55047	0.0039874	0.0024784	0.12386
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(I)	0	10	3600.1	0.030332	0.21377	0.03896	2.1129e+05	45377	0.0037964	0.002572	0.052554
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(L)	0	7	3600	0.026726	0.13712	0.035581	4.1896e+05	86527	0.0042809	0.0020161	0.054193
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(P)	0	15	3600	0.062766	0.035461	0.0071715	8.7802e+05	1.1717e+05	0.007811	0.0034802	0.10398
c-n=150-c=22-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.028368	1.074	0.19685	1.2498e+05	24539	0.023225	0.0067839	0.082976
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(U)	0	16	3600	0.013095	0.015123	0.0028254	3.571e+05	67152	0.0036689	0.0015232	0.10312
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(I)	0	14	3600	0.023744	0.27474	0.036696	1.6627e+05	37144	0.0035551	0.0014486	0.046365
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(L)	0	12	3600	0.029849	0.16456	0.032023	3.2168e+05	59802	0.0034327	0.00071499	0.04286
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.023749	0.044093	0.0065405	6.9209e+05	97172	0.0084186	0.0028663	0.093932
c-n=200-c=25-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600	0.0126	1.4825	0.28403	1.0644e+05	22040	0.023906	0.0041665	0.079669
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600	0.034205	0.027896	0.0046349	2.0883e+05	30290	0.0069098	0.0027061	0.10015
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(I)	0	19	3600.1	0.045012	0.48135	0.073487	82669	12993	0.0065736	0.002569	0.043168
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(L)	0	19	3600	0.023702	0.2968	0.04175	1.7033e+05	36915	0.0059255	0.0025919	0.043769
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.03748	0.073989	0.013078	4.4718e+05	94421	0.012606	0.0035232	0.090225
c-n=250-c=26-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.1	0.03154	0.71404	0.50315	65099	11981	0.02657	0.0043344	0.076818
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600	0.012031	0.032345	0.0054515	1.9498e+05	24362	0.0076576	0.0025724	0.10547
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.1	0.042438	0.53692	0.088031	76803	15725	0.0062447	0.0024261	0.039443
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600	0.024551	0.2983	0.04443	1.3976e+05	31708	0.0058823	0.0024468	0.041959
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600	0.010909	0.089986	0.016181	3.8705e+05	42430	0.013516	0.003441	0.08881
c-n=300-c=28-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.1	0.030594	0.71819	0.11902	55743	15139	0.026006	0.004388	0.077525



## 2 Neighborhood Model

filename	status	formulation	time	All Instances - Part 1			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=50-h=3-d=8-m=10.0	Optimal	(U)	4.1684	13778	0.003	15879	9.2666e-05	290	391	680	1121
n-n=50-h=3-d=8-m=10.0	Optimal	(I)	4.4083	13778	0.021997	14776	7.9122e-05	290	631	1210	700
n-n=50-h=3-d=8-m=10.0	Optimal	(L)	3.6694	13778	0.013998	14776	0	290	631	920	799
n-n=50-h=3-d=8-m=10.0	Optimal	(P)	3.7914	13778	0.006999	15493	9.8389e-05	290	391	680	2091
n-n=50-h=3-d=8-m=10.0	Optimal	(STM)	124.81	13778	0.031995	15668	9.9512e-05	290	631	1210	40063
n-n=50-h=3-d=8-m=10.1	Optimal	(U)	3.6584	11021	0.004	12285	1.2962e-05	335	435	770	719
n-n=50-h=3-d=8-m=10.1	Optimal	(I)	4.9192	11021	0.036995	11637	8.4677e-05	335	720	1390	633
n-n=50-h=3-d=8-m=10.1	Optimal	(L)	4.3133	11021	0.032995	11637	3.9854e-05	335	720	1055	672
n-n=50-h=3-d=8-m=10.1	Optimal	(P)	3.4345	11021	0.008998	12088	7.6103e-05	335	435	770	1628
n-n=50-h=3-d=8-m=10.1	Optimal	(STM)	23.171	11021	0.064991	11938	9.4166e-05	335	720	1390	5017
n-n=50-h=3-d=8-m=10.2	Optimal	(U)	0.14498	20393	0.004	21456	0	336	437	772	35
n-n=50-h=3-d=8-m=10.2	Optimal	(I)	0.69889	20393	0.022996	20846	5.9561e-05	336	723	1394	194
n-n=50-h=3-d=8-m=10.2	Optimal	(L)	0.56191	20393	0.017997	20846	0	336	723	1058	192
n-n=50-h=3-d=8-m=10.2	Optimal	(P)	0.6309	20393	0.008999	21155	2.9897e-05	336	437	772	333
n-n=50-h=3-d=8-m=10.2	Optimal	(STM)	2.3396	20393	0.043993	21191	7.6101e-05	336	723	1394	675
n-n=50-h=3-d=8-m=10.3	Optimal	(U)	5.4872	8361.7	0.003	9567.7	8.7734e-05	315	416	730	1300
n-n=50-h=3-d=8-m=10.3	Optimal	(I)	9.5426	8361.7	0.025996	9038	6.6076e-05	315	681	1310	1657
n-n=50-h=3-d=8-m=10.3	Optimal	(L)	5.6931	8361.7	0.019997	9038	9.4682e-05	315	681	995	1182
n-n=50-h=3-d=8-m=10.3	Optimal	(P)	4.5963	8361.7	0.006999	9448.3	8.9434e-05	315	416	730	2401
n-n=50-h=3-d=8-m=10.3	Optimal	(STM)	138.48	8361.7	0.06399	9406.7	9.5402e-05	315	681	1310	19824
n-n=50-h=3-d=8-m=10.4	Optimal	(U)	0.44193	96063	0.001999	98058	9.2492e-05	306	407	712	214
n-n=50-h=3-d=8-m=10.4	Optimal	(I)	2.6256	96063	0.023997	96882	-1.5148e-16	306	663	1274	497
n-n=50-h=3-d=8-m=10.4	Optimal	(L)	1.8647	96063	0.018997	96882	5.4521e-05	306	663	968	461
n-n=50-h=3-d=8-m=10.4	Optimal	(P)	1.7267	96063	0.009999	97532	7.2794e-05	306	407	712	755
n-n=50-h=3-d=8-m=10.4	Optimal	(STM)	4.8013	96063	0.037994	97308	8.2109e-05	306	663	1274	759
n-n=50-h=3-d=8-m=10.5	Optimal	(U)	1.7577	15671	0.005	17598	2.7951e-05	363	464	826	634
n-n=50-h=3-d=8-m=10.5	Optimal	(I)	4.1034	15671	0.034994	16463	8.7274e-05	363	777	1502	637
n-n=50-h=3-d=8-m=10.5	Optimal	(L)	2.9396	15671	0.025996	16463	-2.3215e-16	363	777	1139	681
n-n=50-h=3-d=8-m=10.5	Optimal	(P)	3.8224	15671	0.009999	17045	4.7329e-05	363	464	826	1396
n-n=50-h=3-d=8-m=10.5	Optimal	(STM)	7.3119	15671	0.046993	16771	8.8143e-05	363	777	1502	1258
n-n=50-h=3-d=8-m=10.6	Optimal	(U)	2.1187	21016	0.004	23526	9.7019e-05	322	423	744	754
n-n=50-h=3-d=8-m=10.6	Optimal	(I)	4.7043	21016	0.029995	21679	-3.462e-16	322	695	1338	621
n-n=50-h=3-d=8-m=10.6	Optimal	(L)	3.6044	21016	0.016998	21679	8.8386e-05	322	695	1016	687
n-n=50-h=3-d=8-m=10.6	Optimal	(P)	3.5675	21016	0.009998	22579	9.4381e-05	322	423	744	972
n-n=50-h=3-d=8-m=10.6	Optimal	(STM)	10.686	21016	0.057991	22236	9.0594e-05	322	695	1338	2161
n-n=50-h=3-d=8-m=10.7	Optimal	(U)	2.6046	14995	0.003999	16686	-1.213e-16	324	425	748	662
n-n=50-h=3-d=8-m=10.7	Optimal	(I)	3.4755	14995	0.022996	15763	0	324	699	1346	546
n-n=50-h=3-d=8-m=10.7	Optimal	(L)	2.8086	14995	0.020997	15763	0	324	699	1022	550
n-n=50-h=3-d=8-m=10.7	Optimal	(P)	2.1527	14995	0.004999	16403	0	324	425	748	806
n-n=50-h=3-d=8-m=10.7	Optimal	(STM)	15.831	14995	0.053992	16022	8.7093e-05	324	699	1346	3100
n-n=50-h=3-d=8-m=10.8	Optimal	(U)	0.97685	16230	0.002999	17836	4.9357e-05	305	406	710	461
n-n=50-h=3-d=8-m=10.8	Optimal	(I)	3.2875	16230	0.023996	17060	3.4084e-05	305	661	1270	541
n-n=50-h=3-d=8-m=10.8	Optimal	(L)	2.6146	16230	0.016997	17060	1.7916e-06	305	661	965	529
n-n=50-h=3-d=8-m=10.8	Optimal	(P)	2.1677	16230	0.008998	17532	0	305	406	710	662
n-n=50-h=3-d=8-m=10.8	Optimal	(STM)	11.368	16230	0.076988	17687	7.9475e-05	305	661	1270	1929
n-n=50-h=3-d=8-m=10.9	Optimal	(U)	3.1915	11478	0.003999	13104	8.3569e-05	335	436	770	851
n-n=50-h=3-d=8-m=10.9	Optimal	(I)	4.4663	11478	0.024996	12351	0	335	721	1390	586
n-n=50-h=3-d=8-m=10.9	Optimal	(L)	3.8354	11478	0.017997	12351	7.0016e-05	335	721	1055	823
n-n=50-h=3-d=8-m=10.9	Optimal	(P)	3.9954	11478	0.006999	12841	7.0966e-05	335	436	770	2048
n-n=50-h=3-d=8-m=10.9	Optimal	(STM)	13.47	11478	0.06799	12751	9.9872e-05	335	721	1390	2944
n-n=50-h=3-d=8-m=10.10	Optimal	(U)	1.0049	15552	0.003	17194	2.2238e-05	315	416	730	411
n-n=50-h=3-d=8-m=10.10	Optimal	(I)	3.2405	15552	0.026996	16230	-2.3392e-16	315	681	1310	505
n-n=50-h=3-d=8-m=10.10	Optimal	(L)	2.8916	15552	0.027995	16230	0	315	681	995	629
n-n=50-h=3-d=8-m=10.10	Optimal	(P)	2.2946	15552	0.010998	17012	9.29e-05	315	416	730	693
n-n=50-h=3-d=8-m=10.10	Optimal	(STM)	8.6677	15552	0.059991	16687	9.6112e-05	315	681	1310	1290
n-n=50-h=3-d=8-m=10.11	Optimal	(U)	0.81388	18502	0.003999	20122	8.3489e-05	297	398	694	413
n-n=50-h=3-d=8-m=10.11	Optimal	(I)	3.0805	18502	0.021996	19308	0	297	645	1238	529
n-n=50-h=3-d=8-m=10.11	Optimal	(L)	1.8097	18502	0.015997	19308	-1.9663e-16	297	645	941	534
n-n=50-h=3-d=8-m=10.11	Optimal	(P)	2.1477	18502	0.006999	19830	2.6981e-05	297	398	694	736
n-n=50-h=3-d=8-m=10.11	Optimal	(STM)	6.527	18502	0.036995	19615	7.9994e-05	297	645	1238	1806
n-n=50-h=3-d=8-m=10.12	Optimal	(U)	5.0692	10584	0.002999	11895	0	343	442	786	720
n-n=50-h=3-d=8-m=10.12	Optimal	(I)	5.1902	10584	0.029996	11224	0	343	735	1422	642
n-n=50-h=3-d=8-m=10.12	Optimal	(L)	3.3025	10584	0.024996	11224	4.0746e-05	343	735	1079	575
n-n=50-h=3-d=8-m=10.12	Optimal	(P)	2.2187	10584	0.008999	11677	2.8416e-05	343	442	786	655
n-n=50-h=3-d=8-m=10.12	Optimal	(STM)	44.432	10584	0.094985	11576	9.8596e-05	343	735	1422	7671
n-n=50-h=3-d=8-m=10.13	Optimal	(U)	0.69689	13590	0.003999	15331	8.3016e-05	341	442	782	225
n-n=50-h=3-d=8-m=10.13	Optimal	(I)	2.9655	13590	0.028995	14245	6.5237e-05	341	733	1414	510
n-n=50-h=3-d=8-m=10.13	Optimal	(L)	2.4656	13590	0.018997	14245	8.7757e-05	341	733	1073	568
n-n=50-h=3-d=8-m=10.13	Optimal	(P)	2.4346	13590	0.009998	15004	7.0224e-05	341	442	782	767
n-n=50-h=3-d=8-m=10.13	Optimal	(STM)	7.3769	13590	0.063991	14722	9.4532e-05	341	733	1414	1146
n-n=50-h=3-d=8-m=10.14	Optimal	(U)	2.6636	11752	0.002999	13182	0	328	429	756	632
n-n=50-h=3-d=8-m=10.14	Optimal	(I)	3.4825	11752	0.033995	12437	7.3413e-05	328	707	1362	561
n-n=50-h=3-d=8-m=10.14	Optimal	(L)	2.5126	11752	0.021996	12437	0	328	707	1034	607
n-n=50-h=3-d=8-m=10.14	Optimal	(P)	3.5295	11752	0.009998	12987	9.3951e-05	328	429	756	1484
n-n=50-h=3-d=8-m=10.14	Optimal	(STM)	18.665	11752	0.062991	12819	9.8064e-05	328	707	1362	5971
n-n=50-h=3-d=8-m=10.15	Optimal	(U)	5.0172	9110.8	0.004999	10444	3.1245e-05	364	464	828	941
n-n=50-h=3-d=8-m=10.15	Optimal	(I)	6.434	9110.8	0.035995	9773.1	6.9073e-05	364	778	1506	702
n-n=50-h=3-d=8-m=10.15	Optimal	(L)	5.2622	9110.8	0.019997	9773.1	-1.9965e-16	364	778	1142	745
n-n=50-h=3-d=8-m=10.15	Optimal	(P)	4.8853	9110.8	0.008998	10241	6.6327e-05	364	464	828	2102
n-n=50-h=3-d=8-m=10.15	Optimal	(STM)	59.002	9110.8	0.06299	10227	9.3308e-05	364	778	1506	11309

filename	status	formulation	time	All Instances - Part 2			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=50-h=3-d=8-m=10.16	Optimal	(U)	2.5366	11192	0.002	12851	4.92e-05	317	418	734	687
n-n=50-h=3-d=8-m=10.16	Optimal	(I)	3.6014	11192	0.023996	12061	0	317	685	1318	641
n-n=50-h=3-d=8-m=10.16	Optimal	(L)	2.2866	11192	0.022996	12061	0	317	685	1001	520
n-n=50-h=3-d=8-m=10.16	Optimal	(P)	2.2217	11192	0.005999	12601	0	317	418	734	938
n-n=50-h=3-d=8-m=10.16	Optimal	(STM)	17.411	11192	0.060991	12597	8.631e-05	317	685	1318	4414
n-n=50-h=3-d=8-m=10.17	Optimal	(U)	0.36695	11459	0.004	12722	0	337	438	774	140
n-n=50-h=3-d=8-m=10.17	Optimal	(I)	0.99285	11459	0.024996	12014	0	337	725	1398	334
n-n=50-h=3-d=8-m=10.17	Optimal	(L)	1.3808	11459	0.015997	12014	5.7286e-05	337	725	1061	732
n-n=50-h=3-d=8-m=10.17	Optimal	(P)	1.6727	11459	0.008998	12491	0	337	438	774	608
n-n=50-h=3-d=8-m=10.17	Optimal	(STM)	6.409	11459	0.050992	12448	8.7997e-05	337	725	1398	940
n-n=50-h=3-d=8-m=10.18	Optimal	(U)	3.4845	16210	0.003999	17836	6.4812e-05	324	425	748	1192
n-n=50-h=3-d=8-m=10.18	Optimal	(I)	8.1748	16210	0.021997	16952	9.0269e-05	324	699	1346	1880
n-n=50-h=3-d=8-m=10.18	Optimal	(L)	7.0419	16210	0.015998	16952	8.7275e-05	324	699	1022	2218
n-n=50-h=3-d=8-m=10.18	Optimal	(P)	6.486	16210	0.005999	17555	9.9814e-05	324	425	748	5403
n-n=50-h=3-d=8-m=10.18	Optimal	(STM)	68.802	16210	0.049992	17525	9.9143e-05	324	699	1346	17871
n-n=50-h=3-d=8-m=10.19	Optimal	(U)	0.6879	15377	0.003	16666	9.1484e-05	315	416	730	661
n-n=50-h=3-d=8-m=10.19	Optimal	(I)	2.4306	15377	0.035994	15970	0	315	681	1310	511
n-n=50-h=3-d=8-m=10.19	Optimal	(L)	2.2427	15377	0.026996	15970	5.8881e-05	315	681	995	509
n-n=50-h=3-d=8-m=10.19	Optimal	(P)	1.7157	15377	0.004999	16411	4.8616e-05	315	416	730	515
n-n=50-h=3-d=8-m=10.19	Optimal	(STM)	4.4743	15377	0.084987	16321	0	315	681	1310	630
n-n=100-h=3-d=8-m=10.0	Optimal	(U)	7.8068	42032	0.007999	46766	9.8015e-05	725	926	1650	928
n-n=100-h=3-d=8-m=10.0	Optimal	(I)	17.824	42032	0.075989	43867	9.6764e-05	725	1551	3000	1145
n-n=100-h=3-d=8-m=10.0	Optimal	(L)	11.066	42032	0.044993	43867	7.0797e-05	725	1551	2275	1116
n-n=100-h=3-d=8-m=10.0	Optimal	(P)	17.992	42032	0.023996	45642	9.5153e-05	725	926	1650	4008
n-n=100-h=3-d=8-m=10.0	Optimal	(STM)	1030.2	42032	0.12598	45212	9.9216e-05	725	1551	3000	65447
n-n=100-h=3-d=8-m=10.1	Optimal	(U)	13.218	39055	0.008999	43447	9.4429e-05	704	905	1608	2548
n-n=100-h=3-d=8-m=10.1	Optimal	(I)	29.309	39055	0.071989	41022	9.944e-05	704	1509	2916	2861
n-n=100-h=3-d=8-m=10.1	Optimal	(L)	15.025	39055	0.041993	41022	9.7545e-05	704	1509	2212	2120
n-n=100-h=3-d=8-m=10.1	Optimal	(P)	171.54	39055	0.021996	42354	9.9686e-05	704	905	1608	42648
n-n=100-h=3-d=8-m=10.1	Optimal	(STM)	944.35	39055	0.13998	41992	9.9997e-05	704	1509	2916	96855
n-n=100-h=3-d=8-m=10.2	Optimal	(U)	6.0811	55521	0.007999	60712	8.0055e-05	763	964	1726	743
n-n=100-h=3-d=8-m=10.2	Optimal	(I)	12.57	55521	0.081987	57178	7.3376e-05	763	1627	3152	813
n-n=100-h=3-d=8-m=10.2	Optimal	(L)	8.9636	55521	0.071989	57178	9.6486e-05	763	1627	2389	772
n-n=100-h=3-d=8-m=10.2	Optimal	(P)	9.0616	55521	0.020997	59341	9.7348e-05	763	964	1726	1581
n-n=100-h=3-d=8-m=10.2	Optimal	(STM)	39.363	55521	0.14698	57868	9.8391e-05	763	1627	3152	4471
n-n=100-h=3-d=8-m=10.3	Optimal	(U)	111.09	32237	0.007998	37761	9.8761e-05	694	895	1588	15593
n-n=100-h=3-d=8-m=10.3	Optimal	(I)	132.53	32237	0.06799	35079	9.9692e-05	694	1489	2876	11583
n-n=100-h=3-d=8-m=10.3	Optimal	(L)	105.2	32237	0.062991	35079	9.9174e-05	694	1489	2182	11439
n-n=100-h=3-d=8-m=10.3	Optimal	(P)	666.47	32237	0.024997	36689	9.9856e-05	694	895	1588	208807
n-n=100-h=3-d=8-m=10.3	Feasible	(STM)	3600.1	32237	0.14098	36945	0.012424	694	1489	2876	321391
n-n=100-h=3-d=8-m=10.4	Optimal	(U)	389.5	33620	0.008999	38884	9.9545e-05	712	910	1624	47835
n-n=100-h=3-d=8-m=10.4	Optimal	(I)	204.18	33620	0.085987	35931	9.9e-05	712	1522	2948	18444
n-n=100-h=3-d=8-m=10.4	Optimal	(L)	122.19	33620	0.079988	35931	9.9617e-05	712	1522	2236	13899
n-n=100-h=3-d=8-m=10.4	Optimal	(P)	950.12	33620	0.018997	37999	9.996e-05	712	910	1624	307385
n-n=100-h=3-d=8-m=10.4	Feasible	(STM)	3600.1	33620	0.23097	37735	0.01517	712	1522	2948	220616
n-n=100-h=3-d=8-m=10.5	Optimal	(U)	40.482	39708	0.006999	44263	9.9796e-05	714	914	1628	5319
n-n=100-h=3-d=8-m=10.5	Optimal	(I)	45.305	39708	0.086987	41608	9.8293e-05	714	1528	2956	3948
n-n=100-h=3-d=8-m=10.5	Optimal	(L)	21.259	39708	0.061991	41608	9.3728e-05	714	1528	2242	2660
n-n=100-h=3-d=8-m=10.5	Optimal	(P)	111.31	39708	0.018998	43567	9.865e-05	714	914	1628	25306
n-n=100-h=3-d=8-m=10.5	Optimal	(STM)	2385.6	39708	0.17597	43009	9.994e-05	714	1528	2956	154996
n-n=100-h=3-d=8-m=10.6	Optimal	(U)	15.642	35629	0.010999	39418	9.6817e-05	711	912	1622	1941
n-n=100-h=3-d=8-m=10.6	Optimal	(I)	26.615	35629	0.085987	37461	9.861e-05	711	1523	2944	2507
n-n=100-h=3-d=8-m=10.6	Optimal	(L)	21.011	35629	0.055991	37461	9.4109e-05	711	1523	2233	2364
n-n=100-h=3-d=8-m=10.6	Optimal	(P)	158.6	35629	0.022996	38887	9.84e-05	711	912	1622	32284
n-n=100-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	35629	0.16597	38326	0.0042869	711	1523	2944	187423
n-n=100-h=3-d=8-m=10.7	Optimal	(U)	294.7	32273	0.010998	36864	9.9891e-05	715	916	1630	38222
n-n=100-h=3-d=8-m=10.7	Optimal	(I)	1118.2	32273	0.11098	34741	9.9846e-05	715	1531	2960	106965
n-n=100-h=3-d=8-m=10.7	Optimal	(L)	906.97	32273	0.072988	34741	9.9958e-05	715	1531	2245	115534
n-n=100-h=3-d=8-m=10.7	Optimal	(P)	2423.5	32273	0.033995	36230	9.9999e-05	715	916	1630	397898
n-n=100-h=3-d=8-m=10.7	Feasible	(STM)	3600	32273	0.17297	35745	0.021597	715	1531	2960	201695
n-n=100-h=3-d=8-m=10.8	Optimal	(U)	13.21	34076	0.009999	38376	9.2156e-05	711	912	1622	2045
n-n=100-h=3-d=8-m=10.8	Optimal	(I)	20.642	34076	0.098985	35626	9.6568e-05	711	1523	2944	1664
n-n=100-h=3-d=8-m=10.8	Optimal	(L)	13.638	34076	0.06399	35626	9.8658e-05	711	1523	2233	1402
n-n=100-h=3-d=8-m=10.8	Optimal	(P)	58.592	34076	0.023996	37390	9.9343e-05	711	912	1622	16541
n-n=100-h=3-d=8-m=10.8	Optimal	(STM)	903.2	34076	0.16698	37203	9.9735e-05	711	1523	2944	92095
n-n=100-h=3-d=8-m=10.9	Optimal	(U)	10.324	52915	0.012998	57978	9.7889e-05	689	890	1578	1832
n-n=100-h=3-d=8-m=10.9	Optimal	(I)	16.074	52915	0.076988	55023	9.9462e-05	689	1479	2856	1350
n-n=100-h=3-d=8-m=10.9	Optimal	(L)	16.038	52915	0.046993	55023	9.1123e-05	689	1479	2167	2334
n-n=100-h=3-d=8-m=10.9	Optimal	(P)	98.265	52915	0.018997	57111	9.933e-05	689	890	1578	29852
n-n=100-h=3-d=8-m=10.9	Optimal	(STM)	1754.7	52915	0.13298	56268	9.9784e-05	689	1479	2856	133989
n-n=100-h=3-d=8-m=10.10	Optimal	(U)	37.624	45790	0.009999	51053	9.9627e-05	645	846	1490	7151
n-n=100-h=3-d=8-m=10.10	Optimal	(I)	40.039	45790	0.085987	48698	9.8643e-05	645	1391	2680	3527
n-n=100-h=3-d=8-m=10.10	Optimal	(L)	25.454	45790	0.040994	48698	9.9225e-05	645	1391	2035	4124
n-n=100-h=3-d=8-m=10.10	Optimal	(P)	182.49	45790	0.022996	50452	9.9971e-05	645	846	1490	60115
n-n=100-h=3-d=8-m=10.10	Feasible	(STM)	3600.5	45790	0.11998	50001	0.0031953	645	1391	2680	206789
n-n=100-h=3-d=8-m=10.11	Optimal	(U)	5.5872	51604	0.005999	55980	6.0961e-05	689	890	1578	644
n-n=100-h=3-d=8-m=10.11	Optimal	(I)	9.0866	51604	0.072989	53491	0	689	1479	2856	595
n-n=100-h=3-d=8-m=10.11	Optimal	(L)	8.1918	51604	0.053992	53491	2.5717e-05	689	1479	2167	624
n-n=100-h=3-d=8-m=10.11	Optimal	(P)	5.6301	51604	0.017997	55403	7.0761e-05	689	890	1578	1174
n-n=100-h=3-d=8-m=10.11	Optimal	(STM)	121.13	51604	0.14598	54743	9.9981e-05	689	1479	2856	14171

filename	status	formulation	time	All Instances - Part 3			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=100-h=3-d=8-m=10.12	Optimal	(U)	22.03	46815	0.006999	51208	9.8749e-05	719	920	1638	3036
n-n=100-h=3-d=8-m=10.12	Optimal	(I)	64.221	46815	0.085987	48776	9.9954e-05	719	1539	2976	6456
n-n=100-h=3-d=8-m=10.12	Optimal	(L)	40.846	46815	0.06699	48776	9.396e-05	719	1539	2257	4529
n-n=100-h=3-d=8-m=10.12	Optimal	(P)	215.92	46815	0.027996	50588	9.9864e-05	719	920	1638	42746
n-n=100-h=3-d=8-m=10.12	Feasible	(STM)	3600	46815	0.15198	50001	0.007785	719	1539	2976	218501
n-n=100-h=3-d=8-m=10.13	Optimal	(U)	38.637	34200	0.009999	38419	9.8417e-05	711	912	1622	3804
n-n=100-h=3-d=8-m=10.13	Optimal	(I)	57.822	34200	0.11598	36291	9.9295e-05	711	1523	2944	4123
n-n=100-h=3-d=8-m=10.13	Optimal	(L)	43.762	34200	0.06399	36291	9.8351e-05	711	1523	2233	3987
n-n=100-h=3-d=8-m=10.13	Optimal	(P)	255.88	34200	0.022997	37975	9.9886e-05	711	912	1622	36356
n-n=100-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	34200	0.22397	37484	0.016158	711	1523	2944	247413
n-n=100-h=3-d=8-m=10.14	Optimal	(U)	8.0398	59110	0.012998	64630	9.7362e-05	715	914	1630	819
n-n=100-h=3-d=8-m=10.14	Optimal	(I)	13.317	59110	0.11498	61485	5.5188e-05	715	1529	2960	615
n-n=100-h=3-d=8-m=10.14	Optimal	(L)	10.494	59110	0.06199	61485	8.0536e-05	715	1529	2245	791
n-n=100-h=3-d=8-m=10.14	Optimal	(P)	19.649	59110	0.022997	63219	9.9657e-05	715	914	1630	6329
n-n=100-h=3-d=8-m=10.14	Optimal	(STM)	276.18	59110	0.27996	62476	9.9473e-05	715	1529	2960	23202
n-n=100-h=3-d=8-m=10.15	Optimal	(U)	4.6713	37221	0.006999	41385	4.8069e-05	630	831	1460	873
n-n=100-h=3-d=8-m=10.15	Optimal	(I)	7.1579	37221	0.057991	39096	4.876e-05	630	1361	2620	675
n-n=100-h=3-d=8-m=10.15	Optimal	(L)	5.2292	37221	0.040994	39096	0	630	1361	1990	671
n-n=100-h=3-d=8-m=10.15	Optimal	(P)	9.7515	37221	0.015998	40683	9.9653e-05	630	831	1460	3767
n-n=100-h=3-d=8-m=10.15	Optimal	(STM)	74.472	37221	0.10798	40294	9.7556e-05	630	1361	2620	10226
n-n=100-h=3-d=8-m=10.16	Optimal	(U)	1591.8	53714	0.007999	59682	9.9967e-05	771	972	1742	188862
n-n=100-h=3-d=8-m=10.16	Optimal	(I)	960.04	53714	0.10498	56613	9.9983e-05	771	1643	3184	66015
n-n=100-h=3-d=8-m=10.16	Optimal	(L)	1261.2	53714	0.074989	56613	9.9793e-05	771	1643	2413	94715
n-n=100-h=3-d=8-m=10.16	Feasible	(P)	3600	53714	0.029996	58609	0.005174	771	972	1742	485292
n-n=100-h=3-d=8-m=10.16	Feasible	(STM)	3600	53714	0.20897	57655	0.015831	771	1643	3184	220781
n-n=100-h=3-d=8-m=10.17	Optimal	(U)	39.636	109325	0.008999	113057	9.9963e-05	701	902	1602	5015
n-n=100-h=3-d=8-m=10.17	Optimal	(I)	22.578	109325	0.094986	111259	9.9246e-05	701	1503	2904	1863
n-n=100-h=3-d=8-m=10.17	Optimal	(L)	15.258	109326	0.061991	111259	9.7966e-05	701	1503	2203	1461
n-n=100-h=3-d=8-m=10.17	Optimal	(P)	99.973	109326	0.029995	112340	9.9353e-05	701	902	1602	18852
n-n=100-h=3-d=8-m=10.17	Optimal	(STM)	2185.8	109326	0.14198	112173	9.9996e-05	701	1503	2904	274709
n-n=100-h=3-d=8-m=10.18	Optimal	(U)	18.839	31183	0.008998	35156	9.6683e-05	677	878	1554	3411
n-n=100-h=3-d=8-m=10.18	Optimal	(I)	66.839	31183	0.095985	33212	9.2991e-05	677	1455	2808	3987
n-n=100-h=3-d=8-m=10.18	Optimal	(L)	56.992	31183	0.056991	33212	9.8974e-05	677	1455	2131	4960
n-n=100-h=3-d=8-m=10.18	Optimal	(P)	371.7	31183	0.024996	34625	9.97e-05	677	878	1554	78800
n-n=100-h=3-d=8-m=10.18	Feasible	(STM)	3600	31183	0.16298	34349	0.0040606	677	1455	2808	343984
n-n=100-h=3-d=8-m=10.19	Optimal	(U)	6.39	39777	0.008999	43496	9.0056e-05	686	887	1572	817
n-n=100-h=3-d=8-m=10.19	Optimal	(I)	8.5527	39777	0.061991	41194	8.9232e-05	686	1473	2844	734
n-n=100-h=3-d=8-m=10.19	Optimal	(L)	6.921	39777	0.038994	41194	6.0458e-05	686	1473	2158	703
n-n=100-h=3-d=8-m=10.19	Optimal	(P)	7.5399	39777	0.019997	42681	9.7072e-05	686	887	1572	1685
n-n=100-h=3-d=8-m=10.19	Optimal	(STM)	57.473	39777	0.15198	41826	9.9955e-05	686	1473	2844	5117
n-n=150-h=3-d=8-m=10.0	Optimal	(U)	25.83	66073	0.010998	74363	9.8603e-05	958	1259	2216	4460
n-n=150-h=3-d=8-m=10.0	Optimal	(I)	50.05	66073	0.11398	69844	9.9693e-05	958	2067	3982	4624
n-n=150-h=3-d=8-m=10.0	Optimal	(L)	29.34	66073	0.075988	69844	9.9078e-05	958	2067	3024	3930
n-n=150-h=3-d=8-m=10.0	Optimal	(P)	834.35	66073	0.027995	73257	9.9948e-05	958	1259	2216	358710
n-n=150-h=3-d=8-m=10.0	Feasible	(STM)	3600	66073	0.17797	72352	0.0083008	958	2067	3982	212187
n-n=150-h=3-d=8-m=10.1	Optimal	(U)	546.72	78712	0.019997	88275	9.9894e-05	1064	1364	2428	51228
n-n=150-h=3-d=8-m=10.1	Optimal	(I)	222.93	78712	0.17997	82850	9.9859e-05	1064	2278	4406	14215
n-n=150-h=3-d=8-m=10.1	Optimal	(L)	229.34	78712	0.078988	82850	9.9831e-05	1064	2278	3342	20976
n-n=150-h=3-d=8-m=10.1	Optimal	(P)	2335.7	78712	0.037994	86450	9.9952e-05	1064	1364	2428	307966
n-n=150-h=3-d=8-m=10.1	Feasible	(STM)	3600	78712	0.24496	85945	0.016982	1064	2278	4406	100085
n-n=150-h=3-d=8-m=10.2	Optimal	(U)	877.34	65009	0.008999	72810	9.9947e-05	1097	1398	2494	96362
n-n=150-h=3-d=8-m=10.2	Optimal	(I)	792.51	65009	0.17997	68345	9.9908e-05	1097	2345	4538	45435
n-n=150-h=3-d=8-m=10.2	Optimal	(L)	447.99	65009	0.094986	68345	9.9569e-05	1097	2345	3441	31264
n-n=150-h=3-d=8-m=10.2	Feasible	(P)	3600	65009	0.082988	71623	0.006312	1097	1398	2494	726788
n-n=150-h=3-d=8-m=10.2	Feasible	(STM)	3600	65009	0.27596	70842	0.016295	1097	2345	4538	277604
n-n=150-h=3-d=8-m=10.3	Optimal	(U)	1907.3	92340	0.017998	99224	9.9958e-05	1112	1413	2524	137788
n-n=150-h=3-d=8-m=10.3	Feasible	(I)	3600	92340	0.20597	95535	0.00022895	1112	2375	4598	154019
n-n=150-h=3-d=8-m=10.3	Optimal	(L)	1009.3	92340	0.10998	95535	9.996e-05	1112	2375	3486	66291
n-n=150-h=3-d=8-m=10.3	Feasible	(P)	3600	92340	0.054991	98103	0.006598	1112	1413	2524	460593
n-n=150-h=3-d=8-m=10.3	Feasible	(STM)	3600	92340	0.23597	97838	0.01377	1112	2375	4598	139226
n-n=150-h=3-d=8-m=10.4	Feasible	(U)	3600	64882	0.019997	73536	0.0055694	1071	1372	2442	259605
n-n=150-h=3-d=8-m=10.4	Feasible	(I)	3600	64882	0.20097	68810	0.0046405	1071	2293	4434	140323
n-n=150-h=3-d=8-m=10.4	Feasible	(L)	3600	64882	0.098985	68810	0.0031397	1071	2293	3363	280992
n-n=150-h=3-d=8-m=10.4	Feasible	(P)	3600	64882	0.06599	72337	0.01722	1071	1372	2442	606505
n-n=150-h=3-d=8-m=10.4	Feasible	(STM)	3600	64882	0.38794	71702	0.032094	1071	2293	4434	220828
n-n=150-h=3-d=8-m=10.5	Optimal	(U)	877.2	65219	0.011998	73077	9.9977e-05	971	1272	2242	106449
n-n=150-h=3-d=8-m=10.5	Optimal	(I)	2140.9	65219	0.15998	68908	9.9967e-05	971	2093	4034	185981
n-n=150-h=3-d=8-m=10.5	Optimal	(L)	1441.5	65219	0.10798	68908	9.9879e-05	971	2093	3063	181545
n-n=150-h=3-d=8-m=10.5	Feasible	(P)	3600.1	65219	0.042994	71699	0.0016118	971	1272	2242	925860
n-n=150-h=3-d=8-m=10.5	Feasible	(STM)	3600	65219	0.24596	71225	0.011623	971	2093	4034	220388
n-n=150-h=3-d=8-m=10.6	Optimal	(U)	118.14	71176	0.015998	78811	9.9374e-05	1034	1330	2368	12626
n-n=150-h=3-d=8-m=10.6	Optimal	(I)	312.91	71176	0.12998	75096	9.9683e-05	1034	2214	4286	18742
n-n=150-h=3-d=8-m=10.6	Optimal	(L)	89.907	71176	0.080987	75096	9.9379e-05	1034	2214	3252	8290
n-n=150-h=3-d=8-m=10.6	Feasible	(P)	3600	71176	0.038994	77672	0.0015414	1034	1330	2368	473237
n-n=150-h=3-d=8-m=10.6	Feasible	(STM)	3600	71176	0.34295	77574	0.016866	1034	2214	4286	144071
n-n=150-h=3-d=8-m=10.7	Optimal	(U)	3336.2	79253	0.014998	88749	9.9985e-05	1168	1469	2636	258305
n-n=150-h=3-d=8-m=10.7	Optimal	(I)	2482.4	79253	0.18197	83392	9.9955e-05	1168	2487	4822	121447
n-n=150-h=3-d=8-m=10.7	Optimal	(L)	3492.8	79253	0.15298	83392	9.9996e-05	1168	2487	3654	223297
n-n=150-h=3-d=8-m=10.7	Feasible	(P)	3600.1	79253	0.033995	87044	0.010328	1168	1469	2636	870426
n-n=150-h=3-d=8-m=10.7	Feasible	(STM)	3600.1	79253	0.26096	86068	0.019089	1168	2487	4822	159871

filename	status	formulation	time	All Instances - Part 4			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=150-h=3-d=8-m=10.8	Optimal	(U)	1254	69389	0.010998	77109	9.9991e-05	1080	1381	2460	110809
n-n=150-h=3-d=8-m=10.8	Optimal	(I)	490.88	69389	0.15798	72572	9.9916e-05	1080	2311	4470	28797
n-n=150-h=3-d=8-m=10.8	Optimal	(L)	452.38	69389	0.099985	72572	9.9872e-05	1080	2311	3390	52829
n-n=150-h=3-d=8-m=10.8	Feasible	(P)	3600.1	69389	0.035995	75805	0.0077188	1080	1381	2460	745777
n-n=150-h=3-d=8-m=10.8	Feasible	(STM)	3600	69389	0.32495	74569	0.014104	1080	2311	4470	212184
n-n=150-h=3-d=8-m=10.9	Feasible	(U)	3600	63433	0.011999	71771	0.0063142	1045	1346	2390	294744
n-n=150-h=3-d=8-m=10.9	Feasible	(I)	3600.1	63433	0.12798	67614	0.0011219	1045	2241	4330	217602
n-n=150-h=3-d=8-m=10.9	Feasible	(L)	3600.1	63433	0.16298	67614	0.0031742	1045	2241	3285	296797
n-n=150-h=3-d=8-m=10.9	Feasible	(P)	3600	63433	0.049993	70569	0.013784	1045	1346	2390	705510
n-n=150-h=3-d=8-m=10.9	Feasible	(STM)	3600.1	63433	0.40194	70127	0.026502	1045	2241	4330	149602
n-n=150-h=3-d=8-m=10.10	Optimal	(U)	773.31	68199	0.015998	76165	9.96e-05	999	1300	2298	65162
n-n=150-h=3-d=8-m=10.10	Optimal	(I)	320.14	68199	0.14298	72385	9.9846e-05	999	2149	4146	15425
n-n=150-h=3-d=8-m=10.10	Optimal	(L)	289.02	68199	0.085987	72385	9.9581e-05	999	2149	3147	30335
n-n=150-h=3-d=8-m=10.10	Feasible	(P)	3600	68199	0.039994	74889	0.0076853	999	1300	2298	808340
n-n=150-h=3-d=8-m=10.10	Feasible	(STM)	3600	68199	0.24196	74571	0.017294	999	2149	4146	197481
n-n=150-h=3-d=8-m=10.11	Feasible	(U)	3600	82532	0.012998	90902	0.0017248	1064	1365	2428	413728
n-n=150-h=3-d=8-m=10.11	Optimal	(I)	1605.6	82532	0.20097	86369	9.9965e-05	1064	2279	4406	94501
n-n=150-h=3-d=8-m=10.11	Optimal	(L)	688.9	82532	0.085987	86369	9.9968e-05	1064	2279	3342	80037
n-n=150-h=3-d=8-m=10.11	Feasible	(P)	3600	82532	0.032995	89605	0.0032306	1064	1365	2428	485886
n-n=150-h=3-d=8-m=10.11	Feasible	(STM)	3600	82532	0.40194	88949	0.012614	1064	2279	4406	149686
n-n=150-h=3-d=8-m=10.12	Optimal	(U)	372.81	72644	0.014998	81569	9.9986e-05	1066	1367	2432	57844
n-n=150-h=3-d=8-m=10.12	Optimal	(I)	636.37	72644	0.13998	76902	9.9959e-05	1066	2283	4414	52649
n-n=150-h=3-d=8-m=10.12	Optimal	(L)	625.42	72644	0.090986	76902	9.9927e-05	1066	2283	3348	76362
n-n=150-h=3-d=8-m=10.12	Feasible	(P)	3600	72644	0.046993	80205	0.0059778	1066	1367	2432	947430
n-n=150-h=3-d=8-m=10.12	Feasible	(STM)	3600	72644	0.21997	78816	0.017673	1066	2283	4414	261693
n-n=150-h=3-d=8-m=10.13	Optimal	(U)	21.247	64306	0.018997	71632	9.3519e-05	1089	1390	2478	1603
n-n=150-h=3-d=8-m=10.13	Optimal	(I)	32.183	64306	0.12298	67620	9.4419e-05	1089	2329	4506	1665
n-n=150-h=3-d=8-m=10.13	Optimal	(L)	15.673	64306	0.083987	67620	9.4441e-05	1089	2329	3417	829
n-n=150-h=3-d=8-m=10.13	Optimal	(P)	321.88	64306	0.043994	70300	9.984e-05	1089	1390	2478	37056
n-n=150-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	64306	0.39694	69558	0.0031009	1089	2329	4506	240311
n-n=150-h=3-d=8-m=10.14	Optimal	(U)	1511	71095	0.016997	79800	9.9922e-05	1044	1345	2388	221812
n-n=150-h=3-d=8-m=10.14	Optimal	(I)	1372.7	71095	0.12498	75235	9.9889e-05	1044	2239	4326	100678
n-n=150-h=3-d=8-m=10.14	Optimal	(L)	1037.3	71095	0.15498	75235	9.9966e-05	1044	2239	3282	109595
n-n=150-h=3-d=8-m=10.14	Feasible	(P)	3600	71095	0.041993	78494	0.011133	1044	1345	2388	717904
n-n=150-h=3-d=8-m=10.14	Feasible	(STM)	3600	71095	0.27596	77294	0.0179	1044	2239	4326	212996
n-n=150-h=3-d=8-m=10.15	Optimal	(U)	282.63	86085	0.025996	94002	9.9861e-05	1071	1371	2442	25815
n-n=150-h=3-d=8-m=10.15	Optimal	(I)	398.41	86085	0.26096	89739	9.9025e-05	1071	2292	4434	19180
n-n=150-h=3-d=8-m=10.15	Optimal	(L)	93.985	86085	0.082987	89739	9.9188e-05	1071	2292	3363	9800
n-n=150-h=3-d=8-m=10.15	Optimal	(P)	3452.8	86085	0.048993	92778	9.9995e-05	1071	1371	2442	580489
n-n=150-h=3-d=8-m=10.15	Feasible	(STM)	3600	86085	0.29796	91614	0.01276	1071	2292	4434	243422
n-n=150-h=3-d=8-m=10.16	Optimal	(U)	1167.2	87852	0.019997	96927	0.0001	1054	1355	2408	84628
n-n=150-h=3-d=8-m=10.16	Feasible	(I)	3600	87852	0.20997	92099	0.000199	1054	2259	4366	211497
n-n=150-h=3-d=8-m=10.16	Optimal	(L)	2331.4	87852	0.10498	92099	9.9913e-05	1054	2259	3312	172076
n-n=150-h=3-d=8-m=10.16	Feasible	(P)	3600	87852	0.051992	95589	0.011365	1054	1355	2408	582794
n-n=150-h=3-d=8-m=10.16	Feasible	(STM)	3600	87852	0.29496	94285	0.018008	1054	2259	4366	164091
n-n=150-h=3-d=8-m=10.17	Feasible	(U)	3600	61647	0.012998	70202	0.0037556	1086	1387	2472	263577
n-n=150-h=3-d=8-m=10.17	Optimal	(I)	1608.5	61647	0.17397	65477	9.9933e-05	1086	2323	4494	120830
n-n=150-h=3-d=8-m=10.17	Optimal	(L)	1840.9	61647	0.095985	65477	9.9969e-05	1086	2323	3408	188337
n-n=150-h=3-d=8-m=10.17	Feasible	(P)	3600	61647	0.035995	68985	0.010045	1086	1387	2472	751495
n-n=150-h=3-d=8-m=10.17	Feasible	(STM)	3600	61647	0.32695	67630	0.027196	1086	2323	4494	190678
n-n=150-h=3-d=8-m=10.18	Feasible	(U)	3600	69564	0.013997	77364	0.0029328	1093	1394	2486	243549
n-n=150-h=3-d=8-m=10.18	Feasible	(I)	3600	69564	0.12998	73804	0.0061947	1093	2337	4522	311480
n-n=150-h=3-d=8-m=10.18	Feasible	(L)	3600	69564	0.10598	73804	0.0036019	1093	2337	3429	343207
n-n=150-h=3-d=8-m=10.18	Feasible	(P)	3600	69564	0.032995	76363	0.01185	1093	1394	2486	822276
n-n=150-h=3-d=8-m=10.18	Feasible	(STM)	3600	69564	0.27696	75609	0.023818	1093	2337	4522	200101
n-n=150-h=3-d=8-m=10.19	Optimal	(U)	3233.1	69036	0.016997	77467	9.9997e-05	1048	1349	2396	265249
n-n=150-h=3-d=8-m=10.19	Optimal	(I)	1925.5	69036	0.17797	73375	9.9893e-05	1048	2247	4342	117695
n-n=150-h=3-d=8-m=10.19	Optimal	(L)	1232.8	69036	0.13398	73375	9.9977e-05	1048	2247	3294	92404
n-n=150-h=3-d=8-m=10.19	Feasible	(P)	3600	69036	0.073989	76106	0.0094727	1048	1349	2396	321318
n-n=150-h=3-d=8-m=10.19	Feasible	(STM)	3600	69036	0.27296	75837	0.019571	1048	2247	4342	90658
n-n=200-h=3-d=8-m=10.0	Optimal	(U)	3364	109253	0.020997	121783	9.9987e-05	1423	1824	3246	210093
n-n=200-h=3-d=8-m=10.0	Feasible	(I)	3600	109253	0.22697	114557	0.00094452	1423	3047	5892	169665
n-n=200-h=3-d=8-m=10.0	Optimal	(L)	1869.2	109253	0.13798	114557	9.9993e-05	1423	3047	4469	126520
n-n=200-h=3-d=8-m=10.0	Feasible	(P)	3600.1	109253	0.059991	119106	0.0094448	1423	1824	3246	262168
n-n=200-h=3-d=8-m=10.0	Feasible	(STM)	3600.1	109253	0.38094	118768	0.015446	1423	3047	5892	200785
n-n=200-h=3-d=8-m=10.1	Feasible	(U)	3600	107357	0.016997	121000	0.0075934	1388	1789	3176	257496
n-n=200-h=3-d=8-m=10.1	Feasible	(I)	3600.1	107357	0.27696	114049	0.0064229	1388	2977	5752	187261
n-n=200-h=3-d=8-m=10.1	Feasible	(L)	3600.1	107357	0.15098	114049	0.0055852	1388	2977	4364	224362
n-n=200-h=3-d=8-m=10.1	Feasible	(P)	3600	107357	0.050992	119449	0.023071	1388	1789	3176	665696
n-n=200-h=3-d=8-m=10.1	Feasible	(STM)	3600.1	107177	0.41594	117774	0.028754	1388	2977	5752	188381
n-n=200-h=3-d=8-m=10.2	Feasible	(U)	3600	103445	0.026996	116415	0.0092105	1464	1865	3328	166160
n-n=200-h=3-d=8-m=10.2	Feasible	(I)	3600.1	103445	0.28596	109513	0.0089149	1464	3129	6056	146816
n-n=200-h=3-d=8-m=10.2	Feasible	(L)	3600	103445	0.17997	109513	0.0083718	1464	3129	4592	182008
n-n=200-h=3-d=8-m=10.2	Feasible	(P)	3600	103445	0.045993	114552	0.019327	1464	1865	3328	425209
n-n=200-h=3-d=8-m=10.2	Feasible	(STM)	3600	103445	0.45793	112795	0.026671	1464	3129	6056	128735
n-n=200-h=3-d=8-m=10.3	Feasible	(U)	3600	114227	0.013998	125733	0.0038471	1451	1852	3302	199792
n-n=200-h=3-d=8-m=10.3	Feasible	(I)	3600	114227	0.21497	119314	0.0030679	1451	3103	6004	189578
n-n=200-h=3-d=8-m=10.3	Feasible	(L)	3600.1	114227	0.13698	119314	0.0030824	1451	3103	4553	387107
n-n=200-h=3-d=8-m=10.3	Feasible	(P)	3600	114227	0.041993	123838	0.011477	1451	1852	3302	354792
n-n=200-h=3-d=8-m=10.3	Feasible	(STM)	3600	114227	0.6519	122818	0.016725	1451	3103	6004	115281

filename	status	formulation	time	All Instances - Part 5			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=200-h=3-d=8-m=10.4	Feasible	(U)	3600.1	114262	0.022997	127898	0.0099357	1409	1810	3218	392219
n-n=200-h=3-d=8-m=10.4	Feasible	(I)	3600	114262	0.39794	121136	0.0091944	1409	3019	5836	235136
n-n=200-h=3-d=8-m=10.4	Feasible	(L)	3600.1	114262	0.17197	121136	0.0094138	1409	3019	4427	224827
n-n=200-h=3-d=8-m=10.4	Feasible	(P)	3600.1	114262	0.049992	125923	0.019045	1409	1810	3218	828419
n-n=200-h=3-d=8-m=10.4	Feasible	(STM)	3600	114262	0.49493	124828	0.028252	1409	3019	5836	93983
n-n=200-h=3-d=8-m=10.5	Feasible	(U)	3600	167722	0.022997	181681	0.0058237	1447	1848	3294	192640
n-n=200-h=3-d=8-m=10.5	Feasible	(I)	3600.1	167722	0.24096	173874	0.0029931	1447	3095	5988	152082
n-n=200-h=3-d=8-m=10.5	Feasible	(L)	3600	167722	0.18497	173874	0.0027373	1447	3095	4541	285913
n-n=200-h=3-d=8-m=10.5	Feasible	(P)	3600	167722	0.075989	179352	0.0092275	1447	1848	3294	641098
n-n=200-h=3-d=8-m=10.5	Feasible	(STM)	3600.1	167722	0.44893	177314	0.014018	1447	3095	5988	210161
n-n=200-h=3-d=8-m=10.6	Feasible	(U)	3600.1	132201	0.025996	144495	0.002237	1441	1841	3282	208641
n-n=200-h=3-d=8-m=10.6	Feasible	(I)	3600	132201	0.26096	137771	0.00073612	1441	3082	5964	145621
n-n=200-h=3-d=8-m=10.6	Optimal	(L)	3307.9	132201	0.18897	137771	9.9988e-05	1441	3082	4523	192727
n-n=200-h=3-d=8-m=10.6	Feasible	(P)	3600	132201	0.06399	142973	0.0097934	1441	1841	3282	572191
n-n=200-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	132201	0.31695	140966	0.015589	1441	3082	5964	142391
n-n=200-h=3-d=8-m=10.7	Feasible	(U)	3600	101656	0.013998	113267	0.0047205	1444	1844	3288	204230
n-n=200-h=3-d=8-m=10.7	Feasible	(I)	3600.2	101656	0.18697	107106	0.0030462	1444	3088	5976	200175
n-n=200-h=3-d=8-m=10.7	Optimal	(L)	2777.9	101656	0.15498	107106	9.9994e-05	1444	3088	4532	245069
n-n=200-h=3-d=8-m=10.7	Feasible	(P)	3600	101656	0.06699	111359	0.011927	1444	1844	3288	238730
n-n=200-h=3-d=8-m=10.7	Feasible	(STM)	3600	101656	0.49892	110274	0.02132	1444	3088	5976	146821
n-n=200-h=3-d=8-m=10.8	Feasible	(U)	3600	114562	0.013998	125900	0.0050683	1476	1877	3352	219724
n-n=200-h=3-d=8-m=10.8	Feasible	(I)	3600	114562	0.23596	119764	0.0005804	1476	3153	6104	147041
n-n=200-h=3-d=8-m=10.8	Feasible	(L)	3600.1	114562	0.13498	119764	0.0020368	1476	3153	4628	286297
n-n=200-h=3-d=8-m=10.8	Feasible	(P)	3600	114562	0.06799	124483	0.013807	1476	1877	3352	722030
n-n=200-h=3-d=8-m=10.8	Feasible	(STM)	3600.1	114562	0.59391	122891	0.020368	1476	3153	6104	153831
n-n=200-h=3-d=8-m=10.9	Feasible	(U)	3600	93771	0.023996	105550	0.0052699	1395	1796	3190	190906
n-n=200-h=3-d=8-m=10.9	Optimal	(I)	2852.9	93771	0.24196	98763	9.9903e-05	1395	2991	5780	157792
n-n=200-h=3-d=8-m=10.9	Optimal	(L)	3489.8	93771	0.19897	98763	9.9999e-05	1395	2991	4385	263436
n-n=200-h=3-d=8-m=10.9	Feasible	(P)	3600	93771	0.06499	103714	0.0098383	1395	1796	3190	493417
n-n=200-h=3-d=8-m=10.9	Feasible	(STM)	3600.1	93771	0.43793	102012	0.021393	1395	2991	5780	125011
n-n=200-h=3-d=8-m=10.10	Feasible	(U)	3600.1	114823	0.022996	127959	0.0072647	1482	1883	3364	196650
n-n=200-h=3-d=8-m=10.10	Feasible	(I)	3600.1	114823	0.36794	120734	0.0066407	1482	3165	6128	143989
n-n=200-h=3-d=8-m=10.10	Feasible	(L)	3600.1	114823	0.21797	120734	0.0064381	1482	3165	4646	196687
n-n=200-h=3-d=8-m=10.10	Feasible	(P)	3600	114823	0.098985	125780	0.015045	1482	1883	3364	510001
n-n=200-h=3-d=8-m=10.10	Feasible	(STM)	3600	114823	0.47793	123958	0.024405	1482	3165	6128	169031
n-n=200-h=3-d=8-m=10.11	Feasible	(U)	3600	108571	0.026996	122392	0.005818	1382	1783	3164	207620
n-n=200-h=3-d=8-m=10.11	Feasible	(I)	3600.1	108571	0.28196	114835	0.0036402	1382	2965	5728	113371
n-n=200-h=3-d=8-m=10.11	Feasible	(L)	3600	108571	0.13698	114835	0.0027256	1382	2965	4346	188617
n-n=200-h=3-d=8-m=10.11	Feasible	(P)	3600	108571	0.078988	119639	0.014573	1382	1783	3164	470578
n-n=200-h=3-d=8-m=10.11	Feasible	(STM)	3600.1	108571	0.54792	119219	0.022392	1382	2965	5728	193961
n-n=200-h=3-d=8-m=10.12	Feasible	(U)	3600	146800	0.021997	160972	0.0045302	1510	1911	3420	160034
n-n=200-h=3-d=8-m=10.12	Feasible	(I)	3600.1	146800	0.37394	152689	0.0020045	1510	3221	6240	172982
n-n=200-h=3-d=8-m=10.12	Feasible	(L)	3600.1	146800	0.15698	152689	0.0013329	1510	3221	4730	201192
n-n=200-h=3-d=8-m=10.12	Feasible	(P)	3600	146800	0.051992	158525	0.009774	1510	1911	3420	552612
n-n=200-h=3-d=8-m=10.12	Feasible	(STM)	3600	146783	0.77988	156873	0.019336	1510	3221	6240	78329
n-n=200-h=3-d=8-m=10.13	Optimal	(U)	720.37	107146	0.021996	119574	9.9958e-05	1407	1808	3214	40002
n-n=200-h=3-d=8-m=10.13	Optimal	(I)	793.32	107146	0.32295	112214	9.9236e-05	1407	3015	5828	24239
n-n=200-h=3-d=8-m=10.13	Optimal	(L)	333.62	107146	0.21697	112214	9.113e-05	1407	3015	4421	12760
n-n=200-h=3-d=8-m=10.13	Feasible	(P)	3600	107146	0.077988	117353	0.0038501	1407	1808	3214	556313
n-n=200-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	107146	0.55292	115249	0.013648	1407	3015	5828	109924
n-n=200-h=3-d=8-m=10.14	Feasible	(U)	3600	89150	0.027996	101028	0.0053028	1453	1854	3306	163353
n-n=200-h=3-d=8-m=10.14	Feasible	(I)	3600.1	89150	0.29795	94881	0.0031712	1453	3107	6012	166690
n-n=200-h=3-d=8-m=10.14	Feasible	(L)	3600	89150	0.35995	94881	0.0022995	1453	3107	4559	204613
n-n=200-h=3-d=8-m=10.14	Feasible	(P)	3600	89150	0.07099	99375	0.015653	1453	1854	3306	446331
n-n=200-h=3-d=8-m=10.14	Feasible	(STM)	3600	89150	0.49793	98333	0.026767	1453	3107	6012	132051
n-n=200-h=3-d=8-m=10.15	Optimal	(U)	2643.7	118400	0.047993	130889	9.9948e-05	1441	1842	3282	159405
n-n=200-h=3-d=8-m=10.15	Optimal	(I)	2043.8	118400	0.31695	123326	9.9974e-05	1441	3083	5964	102151
n-n=200-h=3-d=8-m=10.15	Optimal	(L)	1776	118400	0.14498	123326	9.9998e-05	1441	3083	4523	118785
n-n=200-h=3-d=8-m=10.15	Feasible	(P)	3600	118400	0.054992	128619	0.0074364	1441	1842	3282	435680
n-n=200-h=3-d=8-m=10.15	Feasible	(STM)	3600	118400	0.47693	126879	0.011555	1441	3083	5964	168432
n-n=200-h=3-d=8-m=10.16	Feasible	(U)	3600	138301	0.018997	152509	0.0044795	1491	1892	3382	369501
n-n=200-h=3-d=8-m=10.16	Feasible	(I)	3600.1	138301	0.26996	145131	0.006118	1491	3183	6164	89645
n-n=200-h=3-d=8-m=10.16	Feasible	(L)	3600	138301	0.14498	145131	0.0050704	1491	3183	4673	272232
n-n=200-h=3-d=8-m=10.16	Feasible	(P)	3600	138301	0.06499	149966	0.015379	1491	1892	3382	344116
n-n=200-h=3-d=8-m=10.16	Feasible	(STM)	3600	138301	0.48593	147985	0.0207	1491	3183	6164	170903
n-n=200-h=3-d=8-m=10.17	Feasible	(U)	3600	121917	0.019997	138688	0.0057149	1461	1862	3322	258100
n-n=200-h=3-d=8-m=10.17	Feasible	(I)	3600.1	121917	0.28496	128949	0.0044619	1461	3123	6044	159798
n-n=200-h=3-d=8-m=10.17	Feasible	(L)	3600	121917	0.16398	128949	0.0041673	1461	3123	4583	249817
n-n=200-h=3-d=8-m=10.17	Feasible	(P)	3600	121917	0.06599	134515	0.014205	1461	1862	3322	567451
n-n=200-h=3-d=8-m=10.17	Feasible	(STM)	3600.1	121917	0.44993	133146	0.024676	1461	3123	6044	185344
n-n=200-h=3-d=8-m=10.18	Optimal	(U)	781.62	122902	0.022997	137584	9.9917e-05	1480	1880	3360	37599
n-n=200-h=3-d=8-m=10.18	Optimal	(I)	298.01	122902	0.26496	128826	9.9521e-05	1480	3160	6120	12822
n-n=200-h=3-d=8-m=10.18	Optimal	(L)	199.01	122902	0.15998	128826	9.9162e-05	1480	3160	4640	10727
n-n=200-h=3-d=8-m=10.18	Feasible	(P)	3600	122902	0.057992	134667	0.0044624	1480	1880	3360	487881
n-n=200-h=3-d=8-m=10.18	Feasible	(STM)	3600	122902	0.36694	133029	0.016538	1480	3160	6120	108781
n-n=200-h=3-d=8-m=10.19	Feasible	(U)	3600	125406	0.031995	138523	0.0043022	1413	1813	3226	160912
n-n=200-h=3-d=8-m=10.19	Feasible	(I)	3600	125406	0.17997	131247	0.0034774	1413	3026	5852	235070
n-n=200-h=3-d=8-m=10.19	Feasible	(L)	3600	125406	0.12098	131247	0.0032933	1413	3026	4439	209351
n-n=200-h=3-d=8-m=10.19	Feasible	(P)	3600	125406	0.059991	136194	0.012809	1413	1813	3226	261513
n-n=200-h=3-d=8-m=10.19	Feasible	(STM)	3600.1	125406	0.37594	134865	0.018748	1413	3026	5852	151441

filename	status	formulation	time	All Instances - Part 6			gap	edges	columns	rows	nodes
				value	relax_time	relax_value					
n-n=250-h=3-d=8-m=10.0	Feasible	(U)	3600.1	137984	0.038994	153430	0.0042894	1787	2288	4074	99446
n-n=250-h=3-d=8-m=10.0	Feasible	(I)	3600	137984	0.32495	144725	0.0022143	1787	3825	7398	123677
n-n=250-h=3-d=8-m=10.0	Feasible	(L)	3600.1	137984	0.25996	144725	0.0008239	1787	3825	5611	199492
n-n=250-h=3-d=8-m=10.0	Feasible	(P)	3600	137984	0.084987	150590	0.016305	1787	2288	4074	333618
n-n=250-h=3-d=8-m=10.0	Feasible	(STM)	3600.1	137984	0.77588	149846	0.020404	1787	3825	7398	116201
n-n=250-h=3-d=8-m=10.1	Feasible	(U)	3600.1	183620	0.046993	200793	0.0070364	1864	2364	4228	196133
n-n=250-h=3-d=8-m=10.1	Feasible	(I)	3600.1	183620	0.36794	192063	0.0068385	1864	3978	7706	103051
n-n=250-h=3-d=8-m=10.1	Feasible	(L)	3600.1	183620	0.23296	192063	0.0068532	1864	3978	5842	214171
n-n=250-h=3-d=8-m=10.1	Feasible	(P)	3600.1	183620	0.11198	197858	0.016112	1864	2364	4228	393433
n-n=250-h=3-d=8-m=10.1	Feasible	(STM)	3600	183620	0.56991	196330	0.021382	1864	3978	7706	56402
n-n=250-h=3-d=8-m=10.2	Feasible	(U)	3600.1	146004	0.032995	163794	0.0071332	1804	2305	4108	167229
n-n=250-h=3-d=8-m=10.2	Feasible	(I)	3600.1	146004	0.42094	153877	0.0064709	1804	3859	7466	108191
n-n=250-h=3-d=8-m=10.2	Feasible	(L)	3600.1	146004	0.23796	153877	0.0069873	1804	3859	5662	140982
n-n=250-h=3-d=8-m=10.2	Feasible	(P)	3600	146004	0.087986	161625	0.019461	1804	2305	4108	464141
n-n=250-h=3-d=8-m=10.2	Feasible	(STM)	3600	146004	0.54492	158870	0.03216	1804	3859	7466	119461
n-n=250-h=3-d=8-m=10.3	Feasible	(U)	3600	148826	0.028996	166498	0.0094421	1900	2401	4300	145629
n-n=250-h=3-d=8-m=10.3	Feasible	(I)	3600.1	148826	0.47993	156818	0.0067707	1900	4051	7850	116397
n-n=250-h=3-d=8-m=10.3	Feasible	(L)	3600.1	148826	0.25696	156818	0.0057251	1900	4051	5950	192717
n-n=250-h=3-d=8-m=10.3	Feasible	(P)	3600.2	148826	0.10598	163534	0.020866	1900	2401	4300	345407
n-n=250-h=3-d=8-m=10.3	Feasible	(STM)	3600.1	148826	0.60591	160931	0.025348	1900	4051	7850	117241
n-n=250-h=3-d=8-m=10.4	Feasible	(U)	3600.1	143281	0.033995	161876	0.018665	1821	2322	4142	209785
n-n=250-h=3-d=8-m=10.4	Feasible	(I)	3600.1	143261	0.28696	153134	0.016218	1821	3893	7534	117881
n-n=250-h=3-d=8-m=10.4	Feasible	(L)	3600.1	143261	0.34995	153134	0.016133	1821	3893	5713	154611
n-n=250-h=3-d=8-m=10.4	Feasible	(P)	3600	143261	0.091986	159719	0.028027	1821	2322	4142	381011
n-n=250-h=3-d=8-m=10.4	Feasible	(STM)	3600.1	143277	0.6349	157614	0.042101	1821	3893	7534	80275
n-n=250-h=3-d=8-m=10.5	Feasible	(U)	3600.1	150997	0.032995	167173	0.010706	1760	2261	4020	183199
n-n=250-h=3-d=8-m=10.5	Feasible	(I)	3600.1	150997	0.36695	158235	0.0077255	1760	3771	7290	126692
n-n=250-h=3-d=8-m=10.5	Feasible	(L)	3600.1	150997	0.21197	158235	0.0083693	1760	3771	5530	220001
n-n=250-h=3-d=8-m=10.5	Feasible	(P)	3600	150997	0.074989	164501	0.017666	1760	2261	4020	444277
n-n=250-h=3-d=8-m=10.5	Feasible	(STM)	3600	150997	0.55692	162314	0.024329	1760	3771	7290	117451
n-n=250-h=3-d=8-m=10.6	Feasible	(U)	3600	148579	0.029996	165183	0.0044355	1862	2363	4224	234728
n-n=250-h=3-d=8-m=10.6	Feasible	(I)	3600.1	148579	0.33195	155233	0.0021722	1862	3975	7698	125284
n-n=250-h=3-d=8-m=10.6	Feasible	(L)	3600	148579	0.23297	155233	0.0014773	1862	3975	5836	181202
n-n=250-h=3-d=8-m=10.6	Feasible	(P)	3600	148579	0.06599	162396	0.011547	1862	2363	4224	254070
n-n=250-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	148579	0.48093	159905	0.014869	1862	3975	7698	101511
n-n=250-h=3-d=8-m=10.7	Feasible	(U)	3600	152337	0.036994	169926	0.0064706	1794	2295	4088	173299
n-n=250-h=3-d=8-m=10.7	Feasible	(I)	3600.2	152337	0.41194	160480	0.0056218	1794	3839	7426	130121
n-n=250-h=3-d=8-m=10.7	Feasible	(L)	3600	152337	0.24996	160480	0.0048472	1794	3839	5632	182027
n-n=250-h=3-d=8-m=10.7	Feasible	(P)	3600	152337	0.089987	167318	0.018454	1794	2295	4088	354271
n-n=250-h=3-d=8-m=10.7	Feasible	(STM)	3600	152337	0.56891	166214	0.026181	1794	3839	7426	86961
n-n=250-h=3-d=8-m=10.8	Feasible	(U)	3600	126545	0.040994	143219	0.011052	1818	2319	4136	154176
n-n=250-h=3-d=8-m=10.8	Feasible	(I)	3600.1	126545	0.33695	133753	0.007842	1818	3887	7522	93691
n-n=250-h=3-d=8-m=10.8	Feasible	(L)	3600.1	126545	0.19397	133753	0.0054922	1818	3887	5704	178612
n-n=250-h=3-d=8-m=10.8	Feasible	(P)	3600	126545	0.10598	140648	0.020315	1818	2319	4136	361976
n-n=250-h=3-d=8-m=10.8	Feasible	(STM)	3600	126545	0.6349	138886	0.033313	1818	3887	7522	111801
n-n=250-h=3-d=8-m=10.9	Feasible	(U)	3600	166928	0.030995	185249	0.0081467	1804	2305	4108	150391
n-n=250-h=3-d=8-m=10.9	Feasible	(I)	3600.1	166928	0.36195	175565	0.0080559	1804	3859	7466	108686
n-n=250-h=3-d=8-m=10.9	Feasible	(L)	3600.1	166928	0.22497	175565	0.0072094	1804	3859	5662	203482
n-n=250-h=3-d=8-m=10.9	Feasible	(P)	3600.1	166928	0.083987	182211	0.017777	1804	2305	4108	346361
n-n=250-h=3-d=8-m=10.9	Feasible	(STM)	3600	166928	0.6719	180212	0.022423	1804	3859	7466	116996
n-n=250-h=3-d=8-m=10.10	Feasible	(U)	3600	154181	0.038994	171110	0.0067016	1807	2304	4114	298414
n-n=250-h=3-d=8-m=10.10	Feasible	(I)	3600.1	154181	0.36095	161931	0.0045819	1807	3861	7478	146200
n-n=250-h=3-d=8-m=10.10	Feasible	(L)	3600.1	154181	0.23097	161931	0.0038462	1807	3861	5671	189593
n-n=250-h=3-d=8-m=10.10	Feasible	(P)	3600.1	154181	0.094986	168109	0.01639	1807	2304	4114	401391
n-n=250-h=3-d=8-m=10.10	Feasible	(STM)	3600.1	154181	0.62491	166554	0.02329	1807	3861	7478	135941
n-n=250-h=3-d=8-m=10.11	Feasible	(U)	3600.1	181287	0.028995	198198	0.0033075	1876	2377	4252	246575
n-n=250-h=3-d=8-m=10.11	Feasible	(I)	3600	181287	0.35195	188669	0.0030361	1876	4003	7754	170428
n-n=250-h=3-d=8-m=10.11	Feasible	(L)	3600	181287	0.24296	188669	0.0031903	1876	4003	5878	217532
n-n=250-h=3-d=8-m=10.11	Feasible	(P)	3600.1	181287	0.10298	195252	0.011953	1876	2377	4252	337975
n-n=250-h=3-d=8-m=10.11	Feasible	(STM)	3600.1	181287	0.49992	193134	0.016916	1876	4003	7754	127028
n-n=250-h=3-d=8-m=10.12	Feasible	(U)	3600	150891	0.015998	168771	0.0033823	1842	2342	4184	155424
n-n=250-h=3-d=8-m=10.12	Optimal	(I)	2750.9	150891	0.37394	157919	9.9971e-05	1842	3934	7618	67878
n-n=250-h=3-d=8-m=10.12	Optimal	(L)	1736.1	150891	0.26296	157919	9.9878e-05	1842	3934	5776	87808
n-n=250-h=3-d=8-m=10.12	Feasible	(P)	3600	150891	0.073989	165653	0.012173	1842	2342	4184	596307
n-n=250-h=3-d=8-m=10.12	Feasible	(STM)	3600.1	150891	0.88187	163858	0.021958	1842	3934	7618	181606
n-n=250-h=3-d=8-m=10.13	Feasible	(U)	3600	158464	0.046993	177727	0.0052882	1766	2267	4032	194995
n-n=250-h=3-d=8-m=10.13	Feasible	(I)	3600.1	158464	0.33295	167628	0.0053847	1766	3783	7314	122928
n-n=250-h=3-d=8-m=10.13	Feasible	(L)	3600.1	158464	0.20797	167628	0.0045546	1766	3783	5548	244722
n-n=250-h=3-d=8-m=10.13	Feasible	(P)	3600.1	158464	0.086986	174761	0.016585	1766	2267	4032	299695
n-n=250-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	158464	0.82188	172833	0.025517	1766	3783	7314	142351
n-n=250-h=3-d=8-m=10.14	Feasible	(U)	3600	151437	0.027996	167167	0.0046308	1788	2289	4076	164123
n-n=250-h=3-d=8-m=10.14	Feasible	(I)	3600.1	151437	0.34295	157925	0.00061626	1788	3827	7402	146261
n-n=250-h=3-d=8-m=10.14	Optimal	(L)	3257.6	151437	0.20997	157925	9.9997e-05	1788	3827	5614	271821
n-n=250-h=3-d=8-m=10.14	Feasible	(P)	3600	151437	0.069989	164974	0.011842	1788	2289	4076	498331
n-n=250-h=3-d=8-m=10.14	Feasible	(STM)	3600.1	151437	0.70589	162772	0.019491	1788	3827	7402	146531
n-n=250-h=3-d=8-m=10.15	Feasible	(U)	3600	139810	0.039994	156352	0.0099638	1806	2307	4112	266498
n-n=250-h=3-d=8-m=10.15	Feasible	(I)	3600	139810	0.37194	147763	0.0084713	1806	3863	7474	144598
n-n=250-h=3-d=8-m=10.15	Feasible	(L)	3600.1	139810	0.19597	147763	0.007797	1806	3863	5668	189792
n-n=250-h=3-d=8-m=10.15	Feasible	(P)	3600	139810	0.079988	153765	0.020691	1806	2307	4112	191188
n-n=250-h=3-d=8-m=10.15	Feasible	(STM)	3600	139810	0.6869	151738	0.02677	1806	3863	7474	122651

filename	status	formulation	time	All Instances - Part 7		relax_value	gap	edges	columns	rows	nodes
				value	relax_time						
n-n=250-h=3-d=8-m=10.16	Feasible	(U)	3600	124672	0.032995	140053	0.0058427	1808	2308	4116	202340
n-n=250-h=3-d=8-m=10.16	Feasible	(I)	3600	124672	0.31195	131535	0.0042067	1808	3866	7482	199201
n-n=250-h=3-d=8-m=10.16	Feasible	(L)	3600	124672	0.21297	131535	0.0028112	1808	3866	5674	207201
n-n=250-h=3-d=8-m=10.16	Feasible	(P)	3600.2	124672	0.093986	137455	0.016357	1808	2308	4116	336440
n-n=250-h=3-d=8-m=10.16	Feasible	(STM)	3600	124672	0.54792	135598	0.02316	1808	3866	7482	154659
n-n=250-h=3-d=8-m=10.17	Feasible	(U)	3600	156911	0.032995	177244	0.006838	1777	2274	4054	129623
n-n=250-h=3-d=8-m=10.17	Feasible	(I)	3600	156911	0.21097	166068	0.0052017	1777	3801	7358	193201
n-n=250-h=3-d=8-m=10.17	Feasible	(L)	3600.1	156911	0.15098	166068	0.0057679	1777	3801	5581	225701
n-n=250-h=3-d=8-m=10.17	Feasible	(P)	3600.1	156911	0.089987	174257	0.017195	1777	2274	4054	454661
n-n=250-h=3-d=8-m=10.17	Feasible	(STM)	3600	156911	0.6749	171126	0.021591	1777	3801	7358	161221
n-n=250-h=3-d=8-m=10.18	Feasible	(U)	3600	136977	0.034995	156563	0.014096	1800	2301	4100	185997
n-n=250-h=3-d=8-m=10.18	Feasible	(I)	3600.1	136977	0.22997	145769	0.011111	1800	3851	7450	93001
n-n=250-h=3-d=8-m=10.18	Feasible	(L)	3600	136977	0.20497	145769	0.010919	1800	3851	5650	167399
n-n=250-h=3-d=8-m=10.18	Feasible	(P)	3600	136977	0.10398	152923	0.024028	1800	2301	4100	381731
n-n=250-h=3-d=8-m=10.18	Feasible	(STM)	3600	136977	0.78988	150037	0.031157	1800	3851	7450	132851
n-n=250-h=3-d=8-m=10.19	Feasible	(U)	3600	219381	0.029995	238004	0.0048622	1810	2311	4120	131974
n-n=250-h=3-d=8-m=10.19	Feasible	(I)	3600.1	219381	0.19797	227911	0.0025225	1810	3871	7490	164282
n-n=250-h=3-d=8-m=10.19	Feasible	(L)	3600.1	219381	0.17297	227911	0.0018292	1810	3871	5680	229172
n-n=250-h=3-d=8-m=10.19	Feasible	(P)	3600	219381	0.080987	234756	0.011458	1810	2311	4120	322821
n-n=250-h=3-d=8-m=10.19	Feasible	(STM)	3600	219381	0.55992	232565	0.015304	1810	3871	7490	113482
n-n=300-h=3-d=8-m=10.0	Feasible	(U)	3600.1	211388	0.046993	236455	0.011201	2203	2803	5006	202710
n-n=300-h=3-d=8-m=10.0	Feasible	(I)	3600	211372	0.37394	223713	0.011349	2203	4706	9112	111651
n-n=300-h=3-d=8-m=10.0	Feasible	(L)	3600.1	211388	0.29795	223713	0.010679	2203	4706	6909	152647
n-n=300-h=3-d=8-m=10.0	Feasible	(P)	3600.1	211388	0.11898	232967	0.025277	2203	2803	5006	317672
n-n=300-h=3-d=8-m=10.0	Feasible	(STM)	3600	211388	0.35695	229708	0.030485	2203	4706	9112	80579
n-n=300-h=3-d=8-m=10.1	Feasible	(U)	3600.1	174510	0.040994	195989	0.011998	2175	2773	4950	217604
n-n=300-h=3-d=8-m=10.1	Feasible	(I)	3600.1	174510	0.35195	184830	0.010057	2175	4648	9000	129879
n-n=300-h=3-d=8-m=10.1	Feasible	(L)	3600.1	174510	0.21797	184830	0.010524	2175	4648	6825	204151
n-n=300-h=3-d=8-m=10.1	Feasible	(P)	3600	174510	0.10198	192917	0.025519	2175	2773	4950	368981
n-n=300-h=3-d=8-m=10.1	Feasible	(STM)	3600.1	174510	0.60191	191394	0.030399	2175	4648	9000	117016
n-n=300-h=3-d=8-m=10.2	Feasible	(U)	3600	192693	0.05999	216349	0.013433	2184	2785	4968	179392
n-n=300-h=3-d=8-m=10.2	Feasible	(I)	3600.1	192693	0.36795	204096	0.01081	2184	4669	9036	122751
n-n=300-h=3-d=8-m=10.2	Feasible	(L)	3600.1	192693	0.30295	204096	0.011121	2184	4669	6852	134312
n-n=300-h=3-d=8-m=10.2	Feasible	(P)	3600	192693	0.11598	212842	0.028193	2184	2785	4968	305981
n-n=300-h=3-d=8-m=10.2	Feasible	(STM)	3600	192682	0.6539	210275	0.029912	2184	4669	9036	84960
n-n=300-h=3-d=8-m=10.3	Feasible	(U)	3600.1	196476	0.043993	221974	0.01529	2177	2778	4954	185261
n-n=300-h=3-d=8-m=10.3	Feasible	(I)	3600.1	196473	0.40994	208769	0.013794	2177	4655	9008	125701
n-n=300-h=3-d=8-m=10.3	Feasible	(L)	3600.1	196476	0.35395	208769	0.013697	2177	4655	6831	148717
n-n=300-h=3-d=8-m=10.3	Feasible	(P)	3600.1	196429	0.11298	217344	0.029709	2177	2778	4954	353361
n-n=300-h=3-d=8-m=10.3	Feasible	(STM)	3600.1	196429	0.71789	215385	0.033364	2177	4655	9008	101794
n-n=300-h=3-d=8-m=10.4	Feasible	(U)	3600.1	162909	0.040994	187277	0.010389	2214	2815	5028	129189
n-n=300-h=3-d=8-m=10.4	Feasible	(I)	3600.1	162909	0.43893	173908	0.009511	2214	4729	9156	111351
n-n=300-h=3-d=8-m=10.4	Feasible	(L)	3600.1	162909	0.37994	173908	0.0081996	2214	4729	6942	126827
n-n=300-h=3-d=8-m=10.4	Feasible	(P)	3600.1	162909	0.16398	183328	0.026352	2214	2815	5028	315181
n-n=300-h=3-d=8-m=10.4	Feasible	(STM)	3600.1	162909	0.83087	181683	0.038807	2214	4729	9156	84741
n-n=300-h=3-d=8-m=10.5	Feasible	(U)	3600.1	196245	0.028996	218134	0.011652	2174	2775	4948	114066
n-n=300-h=3-d=8-m=10.5	Feasible	(I)	3600.1	196245	0.46993	206579	0.010741	2174	4649	8996	107016
n-n=300-h=3-d=8-m=10.5	Feasible	(L)	3600.1	196245	0.32895	206579	0.0090534	2174	4649	6822	136902
n-n=300-h=3-d=8-m=10.5	Feasible	(P)	3600	196245	0.10398	214601	0.022249	2174	2775	4948	394931
n-n=300-h=3-d=8-m=10.5	Feasible	(STM)	3600.1	196245	0.78188	212983	0.027076	2174	4649	8996	95616
n-n=300-h=3-d=8-m=10.6	Feasible	(U)	3600	202207	0.046993	225215	0.0032777	2161	2762	4922	209665
n-n=300-h=3-d=8-m=10.6	Feasible	(I)	3600.1	202207	0.45093	211370	0.0032659	2161	4623	8944	135991
n-n=300-h=3-d=8-m=10.6	Feasible	(L)	3600	202207	0.27596	211370	0.0024982	2161	4623	6783	157191
n-n=300-h=3-d=8-m=10.6	Feasible	(P)	3600.1	202207	0.12398	221708	0.014852	2161	2762	4922	291791
n-n=300-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	202207	0.51992	217609	0.021796	2161	4623	8944	92841
n-n=300-h=3-d=8-m=10.7	Feasible	(U)	3600	171884	0.036994	193876	0.0088728	2198	2799	4996	206836
n-n=300-h=3-d=8-m=10.7	Feasible	(I)	3600.1	171884	0.34895	182798	0.0079066	2198	4697	9092	138385
n-n=300-h=3-d=8-m=10.7	Feasible	(L)	3600	171884	0.17097	182798	0.0059965	2198	4697	6894	190657
n-n=300-h=3-d=8-m=10.7	Feasible	(P)	3600	171884	0.11898	190707	0.022104	2198	2799	4996	419011
n-n=300-h=3-d=8-m=10.7	Feasible	(STM)	3600	171884	0.55492	189631	0.031887	2198	4697	9092	111035
n-n=300-h=3-d=8-m=10.8	Feasible	(U)	3600	188432	0.045993	212419	0.013065	2248	2849	5096	105721
n-n=300-h=3-d=8-m=10.8	Feasible	(I)	3600.1	188432	0.41694	200089	0.010242	2248	4797	9292	83971
n-n=300-h=3-d=8-m=10.8	Feasible	(L)	3600	188432	0.29596	200089	0.011279	2248	4797	7044	105271
n-n=300-h=3-d=8-m=10.8	Feasible	(P)	3600	188432	0.11898	208654	0.025735	2248	2849	5096	355010
n-n=300-h=3-d=8-m=10.8	Feasible	(STM)	3600	188415	0.79088	206268	0.032959	2248	4797	9292	51845
n-n=300-h=3-d=8-m=10.9	Feasible	(U)	3600	209252	0.048992	233478	0.0082219	2273	2873	5146	88272
n-n=300-h=3-d=8-m=10.9	Feasible	(I)	3600.1	209252	0.49692	219638	0.0082813	2273	4846	9392	106981
n-n=300-h=3-d=8-m=10.9	Feasible	(L)	3600.2	209252	0.36794	219638	0.0088797	2273	4846	7119	137496
n-n=300-h=3-d=8-m=10.9	Feasible	(P)	3600.1	209252	0.15398	229133	0.020001	2273	2873	5146	244940
n-n=300-h=3-d=8-m=10.9	Feasible	(STM)	3600.1	209252	0.82388	225930	0.024955	2273	4846	9392	78689
n-n=300-h=3-d=8-m=10.10	Feasible	(U)	3600	189776	0.039994	214415	0.010654	2151	2751	4902	169474
n-n=300-h=3-d=8-m=10.10	Feasible	(I)	3600	189776	0.52992	201477	0.0093803	2151	4602	8904	119369
n-n=300-h=3-d=8-m=10.10	Feasible	(L)	3600	189776	0.26696	201477	0.00924	2151	4602	6753	185621
n-n=300-h=3-d=8-m=10.10	Feasible	(P)	3600	189776	0.093985	209875	0.020325	2151	2751	4902	412191
n-n=300-h=3-d=8-m=10.10	Feasible	(STM)	3600.1	189776	0.52892	207512	0.028828	2151	4602	8904	109106
n-n=300-h=3-d=8-m=10.11	Feasible	(U)	3600.1	194697	0.042994	217975	0.0086993	2212	2812	5024	122182
n-n=300-h=3-d=8-m=10.11	Feasible	(I)	3600.1	194697	0.43993	204464	0.0065467	2212	4724	9148	85741
n-n=300-h=3-d=8-m=10.11	Feasible	(L)	3600.1	194697	0.34395	204464	0.0070377	2212	4724	6936	123331
n-n=300-h=3-d=8-m=10.11	Feasible	(P)	3600.1	194697	0.12498	213703	0.017195	2212	2812	5024	305628
n-n=300-h=3-d=8-m=10.11	Feasible	(STM)	3600	194697	0.53992	211825	0.02713	2212	4724	9148	93990

Table with Means and Standard Deviations - All Instances												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
n-n=50-h=3-d=8-m=10	(U)	20	0	2.3446	1.6726	0.0035495	0.00080464	638.65	334.77	4.8462e-05	3.7399e-05	0.11173
n-n=50-h=3-d=8-m=10	(I)	20	0	4.0912	2.0622	0.027696	0.0051481	671.35	385.03	3.5439e-05	3.7127e-05	0.048041
n-n=50-h=3-d=8-m=10	(L)	20	0	3.1551	1.4939	0.020747	0.0047833	710.65	392.03	3.406e-05	3.6585e-05	0.051845
n-n=50-h=3-d=8-m=10	(P)	20	0	2.9746	1.3443	0.0082486	0.001785	1349.7	1108.6	5.5326e-05	3.5551e-05	0.091292
n-n=50-h=3-d=8-m=10	(STM)	20	0	29.702	38.392	0.058791	0.015316	6538.9	9397.1	8.6326e-05	2.1038e-05	0.083541
n-n=100-h=3-d=8-m=10	(U)	20	0	133.77	348.91	0.0090988	0.001841	16572	41431	9.236e-05	1.3574e-05	0.1092
n-n=100-h=3-d=8-m=10	(I)	20	0	143.64	303.13	0.086787	0.016293	11994	26006	8.7217e-05	2.477e-05	0.049422
n-n=100-h=3-d=8-m=10	(L)	20	0	135.78	322.5	0.058291	0.01209	13510	30904	8.4809e-05	2.6378e-05	0.049424
n-n=100-h=3-d=8-m=10	(P)	19	1	471.7	897.36	0.023297	0.004405	90071	1.3924e+05	0.00035138	0.0011064	0.089561
n-n=100-h=3-d=8-m=10	(STM)	11	9	2108.7	1485.5	0.16477	0.041081	1.5219e+05	1.0578e+05	0.0050801	0.0069002	0.072781
n-n=150-h=3-d=8-m=10	(U)	15	5	1715.2	1397.7	0.015698	0.0039756	1.4877e+05	1.1575e+05	0.0010894	0.0019103	0.11432
n-n=150-h=3-d=8-m=10	(I)	15	5	1619.6	1332.8	0.16617	0.037036	98839	83915	0.00069384	0.001609	0.053507
n-n=150-h=3-d=8-m=10	(L)	17	3	1307.4	1281.3	0.10448	0.025703	1.1346e+05	1.0435e+05	0.00058031	0.0011476	0.053625
n-n=150-h=3-d=8-m=10	(P)	4	16	3227.3	928.34	0.046093	0.013926	6.1182e+05	2.3051e+05	0.0068136	0.0050102	0.090084
n-n=150-h=3-d=8-m=10	(STM)	0	20	3600	0.022113	0.29531	0.062989	1.8936e+05	49605	0.017278	0.0064602	0.068267
n-n=200-h=3-d=8-m=10	(U)	4	16	3255.5	861.17	0.023346	0.0073493	1.9975e+05	81358	0.0045759	0.0028146	0.006363
n-n=200-h=3-d=8-m=10	(I)	4	16	3179.5	954.54	0.27656	0.05707	1.476e+05	56204	0.0032906	0.0028197	0.0057029
n-n=200-h=3-d=8-m=10	(L)	7	13	3027.7	1067.3	0.17322	0.050441	2.0415e+05	86012	0.0028622	0.0028029	0.0057491
n-n=200-h=3-d=8-m=10	(P)	0	20	3600	0.025298	0.06359	0.012907	4.9181e+05	1.5161e+05	0.012507	0.0047077	0.0096387
n-n=200-h=3-d=8-m=10	(STM)	0	20	3600	0.023749	0.48553	0.1027	1.4868e+05	36212	0.020365	0.0049801	0.0069679
n-n=250-h=3-d=8-m=10	(U)	0	20	3600	0.016763	0.034195	0.0068444	1.845e+05	47732	0.0076145	0.0037457	0
n-n=250-h=3-d=8-m=10	(I)	1	19	3557.6	185.06	0.3388	0.066674	1.3008e+05	32396	0.0057581	0.0036581	0
n-n=250-h=3-d=8-m=10	(L)	2	18	3489.7	409.15	0.22722	0.039811	1.949e+05	38545	0.0052417	0.0037958	0
n-n=250-h=3-d=8-m=10	(P)	0	20	3600.1	0.051213	0.089086	0.012452	3.7496e+05	86042	0.01726	0.004222	0
n-n=250-h=3-d=8-m=10	(STM)	0	20	3600.1	0.02755	0.64195	0.10686	1.2213e+05	27828	0.024383	0.0063595	0
n-n=300-h=3-d=8-m=10	(U)	0	20	3600	0.029236	0.042244	0.0069549	1.5313e+05	39692	0.0099361	0.0028903	0
n-n=300-h=3-d=8-m=10	(I)	0	20	3600.1	0.038584	0.45248	0.090895	1.092e+05	17788	0.0086891	0.0024547	0
n-n=300-h=3-d=8-m=10	(L)	0	20	3600.1	0.038665	0.29331	0.051716	1.4853e+05	23224	0.0084076	0.0025668	0
n-n=300-h=3-d=8-m=10	(P)	0	20	3600	0.042379	0.12068	0.032337	3.4562e+05	50966	0.021713	0.0041483	0
n-n=300-h=3-d=8-m=10	(STM)	0	20	3600.1	0.034785	0.61731	0.15986	93994	18817	0.027902	0.0044168	0

Table with Means and Standard Deviations - Only solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
n-n=50-h=3-d=8-m=10	(U)	20	0	2.3446	1.6726	0.0035495	0.00080464	638.65	334.77	4.8462e-05	3.7399e-05	0.11173
n-n=50-h=3-d=8-m=10	(I)	20	0	4.0912	2.0622	0.027696	0.0051481	671.35	385.03	3.5439e-05	3.7127e-05	0.048041
n-n=50-h=3-d=8-m=10	(L)	20	0	3.1551	1.4939	0.020747	0.0047833	710.65	392.03	3.406e-05	3.6585e-05	0.051845
n-n=50-h=3-d=8-m=10	(P)	20	0	2.9746	1.3443	0.0082486	0.001785	1349.7	1108.6	5.5326e-05	3.5551e-05	0.091292
n-n=50-h=3-d=8-m=10	(STM)	20	0	29.702	38.392	0.058791	0.015316	6538.9	9397.1	8.6326e-05	2.1038e-05	0.083541
n-n=100-h=3-d=8-m=10	(U)	20	0	133.77	348.91	0.0090988	0.001841	16572	41431	9.236e-05	1.3574e-05	0.1092
n-n=100-h=3-d=8-m=10	(I)	20	0	143.64	303.13	0.086787	0.016293	11994	26006	8.7217e-05	2.477e-05	0.0492
n-n=100-h=3-d=8-m=10	(L)	20	0	135.78	322.5	0.058291	0.01209	13510	30904	8.4809e-05	2.6378e-05	0.049424
n-n=100-h=3-d=8-m=10	(P)	19	0	307.05	552.67	0.022944	0.0042354	69270	1.0841e+05	9.756e-05	6.4361e-06	0.089773
n-n=100-h=3-d=8-m=10	(STM)	11	0	888.41	838.62	0.15607	0.04293	79571	80244	9.9457e-05	7.5865e-07	0.062013
n-n=150-h=3-d=8-m=10	(U)	15	0	1086.9	1012.8	0.016131	0.0041925	1.0001e+05	84206	9.9374e-05	1.6058e-06	0.11281
n-n=150-h=3-d=8-m=10	(I)	15	0	959.47	790.81	0.16324	0.036353	62791	54507	9.9461e-05	1.3667e-06	0.05419
n-n=150-h=3-d=8-m=10	(L)	17	0	902.82	916.67	0.10128	0.023745	79306	70072	9.9441e-05	1.2816e-06	0.052681
n-n=150-h=3-d=8-m=10	(P)	4	0	1736.2	1236.9	0.039744	0.0078216	3.2106e+05	1.9336e+05	9.9934e-05	5.7256e-08	0.09439
n-n=200-h=3-d=8-m=10	(U)	4	0	1877.4	1155	0.028496	0.011279	1.1177e+05	75147	9.9953e-05	2.4803e-08	0
n-n=200-h=3-d=8-m=10	(I)	4	0	1497	1008.7	0.28671	0.03429	74251	59229	9.9659e-05	2.987e-07	0.013284
n-n=200-h=3-d=8-m=10	(L)	7	0	1964.8	1231.4	0.17183	0.02767	1.3857e+05	94548	9.8609e-05	3.0667e-06	0.007591
n-n=250-h=3-d=8-m=10	(I)	1	0	2750.9	0	0.37394	0	67878	0	9.9971e-05	0	0
n-n=250-h=3-d=8-m=10	(L)	2	0	2496.8	760.71	0.23646	0.026496	1.7981e+05	92006	9.9937e-05	5.985e-08	0

Table with Means and Standard Deviations - Only not solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
n-n=100-h=3-d=8-m=10	(P)	0	1	3600	0	0.029996	0	4.8529e+05	0	0.005174	0	0.085523
n-n=100-h=3-d=8-m=10	(STM)	0	9	3600.1	0.14803	0.17542	0.035943	2.4095e+05	51668	0.011168	0.0061993	0.085943
n-n=150-h=3-d=8-m=10	(U)	0	5	3600	0.010198	0.014398	0.00287	2.9504e+05	61618	0.0040594	0.0016838	0.11887
n-n=150-h=3-d=8-m=10	(I)	0	5	3600	0.021909	0.17497	0.037666	2.0698e+05	60500	0.002477	0.0024731	0.051458
n-n=150-h=3-d=8-m=10	(L)	0	3	3600	0.021602	0.12265	0.028658	3.07e+05	26404	0.0033052	0.0002102	0.058972
n-n=150-h=3-d=8-m=10	(P)	0	16	3600	0.023717	0.04768	0.014647	6.8451e+05	1.7507e+05	0.0084921	0.0041583	0.089008
n-n=150-h=3-d=8-m=10	(STM)	0	20	3600	0.022113	0.29531	0.062989	1.8936e+05	49605	0.017278	0.0064602	0.068267
n-n=200-h=3-d=8-m=10	(U)	0	16	3600	0.039681	0.022059	0.0052369	2.2175e+05	66658	0.0056949	0.0019083	0.0079537
n-n=200-h=3-d=8-m=10	(I)	0	16	3600.1	0.0345	0.27402	0.061197	1.6593e+05	37290	0.0040884	0.0025993	0.0038076
n-n=200-h=3-d=8-m=10	(L)	0	13	3600.1	0.032708	0.17397	0.059165	2.3946e+05	54825	0.0043503	0.0023999	0.0047573
n-n=200-h=3-d=8-m=10	(P)	0	20	3600	0.025298	0.06359	0.012907	4.9181e+05	1.5161e+05	0.012507	0.0047077	0.0096387
n-n=200-h=3-d=8-m=10	(STM)	0	20	3600	0.023749	0.48553	0.1027	1.4868e+05	36212	0.020365	0.0049801	0.0069679
n-n=250-h=3-d=8-m=10	(U)	0	20	3600	0.016763	0.034195	0.0068444	1.845e+05	47732	0.0076145	0.0037457	0
n-n=250-h=3-d=8-m=10	(I)	0	19	3600.1	0.035743	0.33695	0.067904	1.3336e+05	29839	0.0060559	0.0035088	0
n-n=250-h=3-d=8-m=10	(L)	0	18	3600.1	0.027739	0.22619	0.040896	1.9658e+05	26118	0.005813	0.0035701	0
n-n=250-h=3-d=8-m=10	(P)	0	20	3600.1	0.051213	0.089086	0.012452	3.7496e+05	86042	0.01726	0.004222	0
n-n=250-h=3-d=8-m=10	(STM)	0	20	3600.1	0.02755	0.64195	0.10686	1.2213e+05	27828	0.024383	0.0063595	0
n-n=300-h=3-d=8-m=10	(U)	0	20	3600	0.029236	0.042244	0.0069549	1.5313e+05	39692	0.0099361	0.0028903	0
n-n=300-h=3-d=8-m=10	(I)	0	20	3600.1	0.038584	0.45248	0.090895	1.092e+05	17788	0.0086891	0.0024547	0
n-n=300-h=3-d=8-m=10	(L)	0	20	3600.1	0.038665	0.29331	0.051716	1.4853e+05	23224	0.0084076	0.0025668	0
n-n=300-h=3-d=8-m=10	(P)	0	20	3600	0.042379	0.12068	0.032337	3.4562e+05	50966	0.021713	0.0041483	0
n-n=300-h=3-d=8-m=10	(STM)	0	20	3600.1	0.034785	0.61731	0.15986	93994	18817	0.027902	0.0044168	0



### 3 Popularity Model

filename	status	formulation	time	All Instances - Part 1		relax_value	gap	edges	columns	rows	nodes
				value	relax_time						
p-n=50-e=400-q=200-d=0.25.0	Optimal	(U)	4.3863	1111.7	0.001999	1263.2	0	400	496	900	992
p-n=50-e=400-q=200-d=0.25.0	Optimal	(I)	7.1739	1111.7	0.037995	1189	7.8778e-05	400	846	1650	1114
p-n=50-e=400-q=200-d=0.25.0	Optimal	(L)	4.5893	1111.7	0.025996	1189	5.3605e-05	400	846	1250	981
p-n=50-e=400-q=200-d=0.25.0	Optimal	(P)	4.2413	1111.7	0.006999	1250.6	9.2385e-05	400	496	900	2579
p-n=50-e=400-q=200-d=0.25.0	Optimal	(STM)	229.71	1111.7	0.06699	1262.9	9.9776e-05	400	846	1650	81050
p-n=50-e=400-q=200-d=0.25.1	Optimal	(U)	4.9223	1043.1	0.002	1204.8	0	400	494	900	1072
p-n=50-e=400-q=200-d=0.25.1	Optimal	(I)	6.354	1043.1	0.033995	1122.4	5.842e-05	400	844	1650	693
p-n=50-e=400-q=200-d=0.25.1	Optimal	(L)	3.6784	1043.1	0.017997	1122.4	0	400	844	1250	673
p-n=50-e=400-q=200-d=0.25.1	Optimal	(P)	2.5266	1043.1	0.004999	1189.8	8.2565e-05	400	494	900	895
p-n=50-e=400-q=200-d=0.25.1	Optimal	(STM)	116.85	1043.1	0.055992	1191.5	9.7872e-05	400	844	1650	17176
p-n=50-e=400-q=200-d=0.25.2	Optimal	(U)	3.5924	1048.8	0.002	1198	0	400	497	900	576
p-n=50-e=400-q=200-d=0.25.2	Optimal	(I)	6.2701	1048.8	0.039994	1128.3	2.6408e-05	400	847	1650	541
p-n=50-e=400-q=200-d=0.25.2	Optimal	(L)	3.7394	1048.8	0.019997	1128.3	3.8288e-05	400	847	1250	523
p-n=50-e=400-q=200-d=0.25.2	Optimal	(P)	2.7166	1048.8	0.005999	1191	4.393e-05	400	497	900	919
p-n=50-e=400-q=200-d=0.25.2	Optimal	(STM)	118.71	1048.8	0.072989	1196.1	9.9679e-05	400	847	1650	14655
p-n=50-e=400-q=200-d=0.25.3	Optimal	(U)	1.7547	1113.6	0.002	1264.6	6.9265e-05	400	495	900	801
p-n=50-e=400-q=200-d=0.25.3	Optimal	(I)	5.0292	1113.6	0.044993	1192.5	0	400	845	1650	551
p-n=50-e=400-q=200-d=0.25.3	Optimal	(L)	3.5755	1113.6	0.025996	1192.5	0	400	845	1250	597
p-n=50-e=400-q=200-d=0.25.3	Optimal	(P)	2.6456	1113.6	0.006999	1257	5.7095e-05	400	495	900	906
p-n=50-e=400-q=200-d=0.25.3	Optimal	(STM)	226.14	1113.6	0.069989	1265.1	9.8696e-05	400	845	1650	38556
p-n=50-e=400-q=200-d=0.25.4	Optimal	(U)	5.6571	1148.4	0.003999	1336.6	7.6616e-05	400	496	900	836
p-n=50-e=400-q=200-d=0.25.4	Optimal	(I)	5.5162	1148.4	0.032995	1245.9	0	400	846	1650	551
p-n=50-e=400-q=200-d=0.25.4	Optimal	(L)	4.1944	1148.4	0.019997	1245.9	0	400	846	1250	547
p-n=50-e=400-q=200-d=0.25.4	Optimal	(P)	3.7364	1148.4	0.007999	1321.6	5.9933e-05	400	496	900	1500
p-n=50-e=400-q=200-d=0.25.4	Optimal	(STM)	153.63	1148.4	0.077988	1337.3	9.8042e-05	400	846	1650	23853
p-n=50-e=400-q=200-d=0.25.5	Optimal	(U)	0.62691	1241.5	0.002999	1348.7	3.8136e-05	400	496	900	338
p-n=50-e=400-q=200-d=0.25.5	Optimal	(I)	3.6185	1241.5	0.036995	1275.5	0	400	846	1650	544
p-n=50-e=400-q=200-d=0.25.5	Optimal	(L)	2.1907	1241.5	0.018997	1275.5	7.1058e-06	400	846	1250	987
p-n=50-e=400-q=200-d=0.25.5	Optimal	(P)	1.7987	1241.5	0.007999	1343.3	7.2392e-05	400	496	900	813
p-n=50-e=400-q=200-d=0.25.5	Optimal	(STM)	21.536	1241.5	0.061991	1333.2	9.8075e-05	400	846	1650	3573
p-n=50-e=400-q=200-d=0.25.6	Optimal	(U)	0.42294	1121	0.001	1245.9	7.3173e-05	400	496	900	144
p-n=50-e=400-q=200-d=0.25.6	Optimal	(I)	4.2694	1121	0.06099	1176.7	0	400	846	1650	536
p-n=50-e=400-q=200-d=0.25.6	Optimal	(L)	1.9827	1121	0.020997	1176.7	-6.0849e-16	400	846	1250	481
p-n=50-e=400-q=200-d=0.25.6	Optimal	(P)	1.5168	1121	0.005999	1239.8	0	400	496	900	604
p-n=50-e=400-q=200-d=0.25.6	Optimal	(STM)	12.955	1121	0.079988	1234.7	9.1403e-05	400	846	1650	1931
p-n=50-e=400-q=200-d=0.25.7	Optimal	(U)	4.8693	1129.8	0.003	1266.2	9.7791e-05	400	498	900	965
p-n=50-e=400-q=200-d=0.25.7	Optimal	(I)	6.47	1129.8	0.055991	1211	8.3503e-05	400	848	1650	746
p-n=50-e=400-q=200-d=0.25.7	Optimal	(L)	4.5073	1129.8	0.027996	1211	7.552e-05	400	848	1250	729
p-n=50-e=400-q=200-d=0.25.7	Optimal	(P)	3.1875	1129.8	0.006999	1256.5	2.2902e-05	400	498	900	1178
p-n=50-e=400-q=200-d=0.25.7	Optimal	(STM)	278.48	1129.8	0.083987	1270.3	9.8825e-05	400	848	1650	38183
p-n=50-e=400-q=200-d=0.25.8	Optimal	(U)	2.0567	1028.7	0.002	1197.1	9.61e-06	400	497	900	616
p-n=50-e=400-q=200-d=0.25.8	Optimal	(I)	7.3179	1028.7	0.035995	1117.9	2.8741e-05	400	847	1650	682
p-n=50-e=400-q=200-d=0.25.8	Optimal	(L)	4.7483	1028.7	0.027996	1117.9	0	400	847	1250	690
p-n=50-e=400-q=200-d=0.25.8	Optimal	(P)	2.8376	1028.7	0.006999	1184.1	3.7737e-05	400	497	900	949
p-n=50-e=400-q=200-d=0.25.8	Optimal	(STM)	81.243	1028.7	0.072988	1177	9.7018e-05	400	847	1650	13065
p-n=50-e=400-q=200-d=0.25.9	Optimal	(U)	0.29196	1150.2	0.002999	1267.3	7.1579e-05	400	499	900	71
p-n=50-e=400-q=200-d=0.25.9	Optimal	(I)	1.1578	1150.2	0.039994	1194.2	9.6218e-05	400	849	1650	357
p-n=50-e=400-q=200-d=0.25.9	Optimal	(L)	0.89586	1150.2	0.023997	1194.2	8.5378e-05	400	849	1250	406
p-n=50-e=400-q=200-d=0.25.9	Optimal	(P)	1.2098	1150.2	0.005999	1260.2	0	400	499	900	509
p-n=50-e=400-q=200-d=0.25.9	Optimal	(STM)	9.6575	1150.2	0.090986	1248.9	9.2584e-05	400	849	1650	1047
p-n=50-e=400-q=200-d=0.25.10	Optimal	(U)	3.8624	1049.8	0.003	1218	7.7948e-05	400	496	900	698
p-n=50-e=400-q=200-d=0.25.10	Optimal	(I)	7.9638	1049.8	0.035994	1148.7	0	400	846	1650	593
p-n=50-e=400-q=200-d=0.25.10	Optimal	(L)	5.4482	1049.8	0.018998	1148.7	0	400	846	1250	654
p-n=50-e=400-q=200-d=0.25.10	Optimal	(P)	6.37	1049.8	0.006999	1208.1	9.0865e-05	400	496	900	2282
p-n=50-e=400-q=200-d=0.25.10	Optimal	(STM)	267.98	1049.8	0.06499	1212.9	9.8536e-05	400	846	1650	31181
p-n=50-e=400-q=200-d=0.25.11	Optimal	(U)	3.8534	1097	0.003	1249.2	7.6875e-05	400	498	900	814
p-n=50-e=400-q=200-d=0.25.11	Optimal	(I)	5.9941	1097	0.041993	1183.2	5.6207e-06	400	848	1650	597
p-n=50-e=400-q=200-d=0.25.11	Optimal	(L)	4.4963	1097	0.015998	1183.2	0	400	848	1250	681
p-n=50-e=400-q=200-d=0.25.11	Optimal	(P)	2.8636	1097	0.007999	1239.5	9.6084e-05	400	498	900	964
p-n=50-e=400-q=200-d=0.25.11	Optimal	(STM)	419.82	1097	0.092986	1234.6	9.9723e-05	400	848	1650	83955
p-n=50-e=400-q=200-d=0.25.12	Optimal	(U)	1.0288	1141.1	0.002999	1275	4.6029e-05	400	494	900	488
p-n=50-e=400-q=200-d=0.25.12	Optimal	(I)	5.9451	1141.1	0.040993	1205.6	0	400	844	1650	558
p-n=50-e=400-q=200-d=0.25.12	Optimal	(L)	4.3573	1141.1	0.021996	1205.6	4.8429e-05	400	844	1250	781
p-n=50-e=400-q=200-d=0.25.12	Optimal	(P)	2.0637	1141.1	0.006999	1268.7	7.9823e-05	400	494	900	673
p-n=50-e=400-q=200-d=0.25.12	Optimal	(STM)	93.456	1141.1	0.084987	1265.5	9.9494e-05	400	844	1650	13602
p-n=50-e=400-q=200-d=0.25.13	Optimal	(U)	0.17297	1167.3	0.003	1287.2	0	400	495	900	52
p-n=50-e=400-q=200-d=0.25.13	Optimal	(I)	1.6917	1167.3	0.036994	1212.9	2.0876e-05	400	845	1650	410
p-n=50-e=400-q=200-d=0.25.13	Optimal	(L)	1.4588	1167.3	0.018997	1212.9	1.9572e-05	400	845	1250	529
p-n=50-e=400-q=200-d=0.25.13	Optimal	(P)	0.78488	1167.3	0.006999	1278.7	0	400	495	900	657
p-n=50-e=400-q=200-d=0.25.13	Optimal	(STM)	9.2476	1167.3	0.070989	1279.8	7.4799e-05	400	845	1650	894
p-n=50-e=400-q=200-d=0.25.14	Optimal	(U)	4.0454	1099.2	0.003	1250.8	8.2075e-05	400	499	900	1001
p-n=50-e=400-q=200-d=0.25.14	Optimal	(I)	6.802	1099.2	0.035994	1171.3	2.0446e-05	400	849	1650	860
p-n=50-e=400-q=200-d=0.25.14	Optimal	(L)	4.7683	1099.2	0.020997	1171.3	2.3891e-05	400	849	1250	1063
p-n=50-e=400-q=200-d=0.25.14	Optimal	(P)	2.9146	1099.2	0.006999	1243	6.6431e-05	400	499	900	1571
p-n=50-e=400-q=200-d=0.25.14	Optimal	(STM)	463.44	1099.2	0.059991	1241.1	9.945e-05	400	849	1650	121807
p-n=50-e=400-q=200-d=0.25.15	Optimal	(U)	0.52092	1222.7	0.002999	1389.8	0	400	499	900	155
p-n=50-e=400-q=200-d=0.25.15	Optimal	(I)	2.3146	1222.7	0.035995	1281.6	8.0855e-05	400	849	1650	635
p-n=50-e=400-q=200-d=0.25.15	Optimal	(L)	1.4298	1222.7	0.028995	1281.6	7.6105e-05	400	849	1250	611
p-n=50-e=400-q=200-d=0.25.15	Optimal	(P)	1.9707	1222.7	0.007999	1375.4	9.9462e-05	400	499	900	786
p-n=50-e=400-q=200-d=0.25.15	Optimal	(STM)	34.849	1222.7	0.083987	1363.1	9.9842e-05	400	849	1650	7241

filename	status	formulation	time	All Instances - Part 2			gap	edges	columns	rows	nodes
				value	relax.time	relax.value					
p-n=50-e=400-q=200-d=0.25.16	Optimal	(U)	0.32595	1004.7	0.002	1127.7	0	400	495	900	83
p-n=50-e=400-q=200-d=0.25.16	Optimal	(I)	2.0167	1004.7	0.058991	1049	6.7406e-05	400	845	1650	442
p-n=50-e=400-q=200-d=0.25.16	Optimal	(L)	1.1288	1004.7	0.016997	1049	8.8543e-05	400	845	1250	310
p-n=50-e=400-q=200-d=0.25.16	Optimal	(P)	1.7787	1004.7	0.009998	1119.1	0	400	495	900	604
p-n=50-e=400-q=200-d=0.25.16	Optimal	(STM)	9.7345	1004.7	0.10199	1114.8	9.1128e-05	400	845	1650	940
p-n=50-e=400-q=200-d=0.25.17	Optimal	(U)	6.0601	948.02	0.003	1096.9	5.5349e-05	400	495	900	985
p-n=50-e=400-q=200-d=0.25.17	Optimal	(I)	8.9336	948.02	0.039994	1028.3	0	400	845	1650	991
p-n=50-e=400-q=200-d=0.25.17	Optimal	(L)	4.9543	948.02	0.017998	1028.3	0	400	845	1250	896
p-n=50-e=400-q=200-d=0.25.17	Optimal	(P)	5.5911	948.02	0.007999	1085.9	6.3008e-05	400	495	900	2874
p-n=50-e=400-q=200-d=0.25.17	Optimal	(STM)	275.54	948.02	0.083988	1097.8	9.9875e-05	400	845	1650	46794
p-n=50-e=400-q=200-d=0.25.18	Optimal	(U)	0.55692	1088	0.003999	1205.9	9.213e-05	400	497	900	296
p-n=50-e=400-q=200-d=0.25.18	Optimal	(I)	2.9116	1088	0.043994	1129.9	1.1595e-05	400	847	1650	484
p-n=50-e=400-q=200-d=0.25.18	Optimal	(L)	2.1377	1088	0.018997	1129.9	-2.0899e-16	400	847	1250	485
p-n=50-e=400-q=200-d=0.25.18	Optimal	(P)	1.5278	1088	0.005999	1197.7	2.6131e-06	400	497	900	547
p-n=50-e=400-q=200-d=0.25.18	Optimal	(STM)	13.43	1088	0.072989	1190.8	8.7563e-05	400	847	1650	2037
p-n=50-e=400-q=200-d=0.25.19	Optimal	(U)	4.7323	1107	0.003	1263.3	5.6182e-05	400	494	900	827
p-n=50-e=400-q=200-d=0.25.19	Optimal	(I)	6.926	1107	0.039994	1178.5	3.5544e-05	400	844	1650	807
p-n=50-e=400-q=200-d=0.25.19	Optimal	(L)	4.2594	1107	0.019997	1178.5	9.7467e-05	400	844	1250	730
p-n=50-e=400-q=200-d=0.25.19	Optimal	(P)	4.1194	1107	0.006	1258	9.7344e-05	400	494	900	2051
p-n=50-e=400-q=200-d=0.25.19	Optimal	(STM)	260.95	1107	0.084988	1256	9.8962e-05	400	844	1650	43086
p-n=100-e=800-q=200-d=0.25.0	Optimal	(U)	26.853	2215.1	0.005999	2476.4	9.8235e-05	800	989	1800	3444
p-n=100-e=800-q=200-d=0.25.0	Optimal	(I)	31.579	2215.1	0.085987	2334.4	9.6269e-05	800	1689	3300	2783
p-n=100-e=800-q=200-d=0.25.0	Optimal	(L)	23.154	2215.1	0.045993	2334.4	9.7173e-05	800	1689	2500	2682
p-n=100-e=800-q=200-d=0.25.0	Optimal	(P)	26.81	2215.1	0.016997	2463.9	9.9593e-05	800	989	1800	8612
p-n=100-e=800-q=200-d=0.25.0	Feasible	(STM)	3600	2215.1	0.46693	2448.8	0.016445	800	1689	3300	186031
p-n=100-e=800-q=200-d=0.25.1	Optimal	(U)	1064	2141.4	0.005999	2555.9	9.9575e-05	800	986	1800	63984
p-n=100-e=800-q=200-d=0.25.1	Optimal	(I)	2197.8	2141.4	0.13298	2400	9.9963e-05	800	1686	3300	156815
p-n=100-e=800-q=200-d=0.25.1	Optimal	(L)	1579.6	2141.4	0.073989	2400	9.9888e-05	800	1686	2500	174873
p-n=100-e=800-q=200-d=0.25.1	Feasible	(P)	3600	2141.4	0.015998	2535.2	0.0045375	800	986	1800	1453098
p-n=100-e=800-q=200-d=0.25.1	Feasible	(STM)	3600	2141.4	0.22097	2521.3	0.067761	800	1686	3300	257907
p-n=100-e=800-q=200-d=0.25.2	Optimal	(U)	20.513	2097.3	0.005999	2375.1	7.4158e-05	800	992	1800	1436
p-n=100-e=800-q=200-d=0.25.2	Optimal	(I)	20.434	2097.3	0.17397	2215.9	7.4776e-05	800	1692	3300	1060
p-n=100-e=800-q=200-d=0.25.2	Optimal	(L)	12.43	2097.3	0.057991	2215.9	8.6984e-05	800	1692	2500	929
p-n=100-e=800-q=200-d=0.25.2	Optimal	(P)	18.286	2097.3	0.018997	2363.8	9.9306e-05	800	992	1800	4921
p-n=100-e=800-q=200-d=0.25.2	Optimal	(STM)	1241.6	2097.3	0.21197	2354.6	9.945e-05	800	1692	3300	81973
p-n=100-e=800-q=200-d=0.25.3	Optimal	(U)	25.436	2116	0.003999	2422.7	8.3545e-05	800	994	1800	2269
p-n=100-e=800-q=200-d=0.25.3	Optimal	(I)	22.687	2116	0.10698	2266.9	7.6714e-05	800	1694	3300	1238
p-n=100-e=800-q=200-d=0.25.3	Optimal	(L)	18.502	2116	0.031995	2266.9	8.4663e-05	800	1694	2500	1411
p-n=100-e=800-q=200-d=0.25.3	Optimal	(P)	29.137	2116	0.014998	2400.7	9.9208e-05	800	994	1800	8849
p-n=100-e=800-q=200-d=0.25.3	Feasible	(STM)	3600	2116	0.20997	2398.2	0.011326	800	1694	3300	190631
p-n=100-e=800-q=200-d=0.25.4	Optimal	(U)	214.67	2156.4	0.006999	2442.2	9.8744e-05	800	990	1800	21711
p-n=100-e=800-q=200-d=0.25.4	Optimal	(I)	107.94	2156.4	0.086987	2319.8	9.9989e-05	800	1690	3300	9931
p-n=100-e=800-q=200-d=0.25.4	Optimal	(L)	100.51	2156.4	0.054991	2319.8	9.9868e-05	800	1690	2500	12449
p-n=100-e=800-q=200-d=0.25.4	Optimal	(P)	249.28	2156.4	0.017997	2428.9	9.9932e-05	800	990	1800	97194
p-n=100-e=800-q=200-d=0.25.4	Feasible	(STM)	3600	2156.4	0.22197	2418.3	0.029321	800	1690	3300	187711
p-n=100-e=800-q=200-d=0.25.5	Optimal	(U)	17.149	2292.6	0.005999	2618.7	5.0054e-05	800	991	1800	1134
p-n=100-e=800-q=200-d=0.25.5	Optimal	(I)	31.683	2292.6	0.16198	2450.7	8.7586e-05	800	1691	3300	1443
p-n=100-e=800-q=200-d=0.25.5	Optimal	(L)	22.304	2292.6	0.074988	2450.7	9.6861e-05	800	1691	2500	1906
p-n=100-e=800-q=200-d=0.25.5	Optimal	(P)	55.636	2292.6	0.017997	2604.4	9.8703e-05	800	991	1800	11870
p-n=100-e=800-q=200-d=0.25.5	Feasible	(STM)	3600.1	2292.6	0.21897	2570.2	0.022378	800	1691	3300	146912
p-n=100-e=800-q=200-d=0.25.6	Optimal	(U)	37.63	2138.6	0.007999	2415.9	8.8242e-05	800	993	1800	3787
p-n=100-e=800-q=200-d=0.25.6	Optimal	(I)	39.577	2138.6	0.12798	2271.4	9.9976e-05	800	1693	3300	4491
p-n=100-e=800-q=200-d=0.25.6	Optimal	(L)	21.738	2138.6	0.047993	2271.4	9.235e-05	800	1693	2500	2907
p-n=100-e=800-q=200-d=0.25.6	Optimal	(P)	87.857	2138.6	0.016997	2404.8	9.9302e-05	800	993	1800	36910
p-n=100-e=800-q=200-d=0.25.6	Feasible	(STM)	3600	2138.6	0.23097	2393.3	0.021746	800	1693	3300	223414
p-n=100-e=800-q=200-d=0.25.7	Optimal	(U)	188.11	2135.8	0.006999	2461.4	9.9487e-05	800	996	1800	14390
p-n=100-e=800-q=200-d=0.25.7	Optimal	(I)	102.01	2135.8	0.11198	2317.3	9.0238e-05	800	1696	3300	8256
p-n=100-e=800-q=200-d=0.25.7	Optimal	(L)	74.292	2135.8	0.048993	2317.3	9.623e-05	800	1696	2500	8179
p-n=100-e=800-q=200-d=0.25.7	Optimal	(P)	529.14	2135.8	0.019997	2447.9	9.9896e-05	800	996	1800	234409
p-n=100-e=800-q=200-d=0.25.7	Feasible	(STM)	3600	2135.8	0.28496	2439.9	0.032789	800	1696	3300	199517
p-n=100-e=800-q=200-d=0.25.8	Optimal	(U)	27.834	2042.5	0.005	2354.8	9.4413e-05	800	992	1800	3128
p-n=100-e=800-q=200-d=0.25.8	Optimal	(I)	41.293	2042.5	0.10698	2199.1	9.3999e-05	800	1692	3300	2477
p-n=100-e=800-q=200-d=0.25.8	Optimal	(L)	39.196	2042.5	0.051992	2199.1	9.9861e-05	800	1692	2500	3356
p-n=100-e=800-q=200-d=0.25.8	Optimal	(P)	84.366	2042.5	0.018997	2344.6	9.9882e-05	800	992	1800	25335
p-n=100-e=800-q=200-d=0.25.8	Feasible	(STM)	3600	2042.5	0.27596	2343.3	0.025409	800	1692	3300	150111
p-n=100-e=800-q=200-d=0.25.9	Optimal	(U)	471	2027.5	0.006999	2378.1	9.9918e-05	800	994	1800	58267
p-n=100-e=800-q=200-d=0.25.9	Optimal	(I)	1502.1	2027.5	0.12298	2242.5	9.9782e-05	800	1694	3300	176249
p-n=100-e=800-q=200-d=0.25.9	Optimal	(L)	679.7	2027.5	0.073989	2242.5	9.9569e-05	800	1694	2500	141643
p-n=100-e=800-q=200-d=0.25.9	Optimal	(P)	2491.7	2027.5	0.028996	2364.1	9.9982e-05	800	994	1800	1021715
p-n=100-e=800-q=200-d=0.25.9	Feasible	(STM)	3600	2027.5	0.15398	2384	0.051616	800	1694	3300	224915
p-n=100-e=800-q=200-d=0.25.10	Optimal	(U)	13.322	2182.8	0.006999	2428.9	9.8256e-05	800	991	1800	978
p-n=100-e=800-q=200-d=0.25.10	Optimal	(I)	16.53	2182.8	0.082988	2307.6	9.5746e-05	800	1691	3300	889
p-n=100-e=800-q=200-d=0.25.10	Optimal	(L)	10.579	2182.8	0.042993	2307.6	5.4497e-05	800	1691	2500	923
p-n=100-e=800-q=200-d=0.25.10	Optimal	(P)	10.252	2182.8	0.014998	2418.8	9.2538e-05	800	991	1800	2752
p-n=100-e=800-q=200-d=0.25.10	Optimal	(STM)	490.14	2182.8	0.18797	2403.1	9.9988e-05	800	1691	3300	62445
p-n=100-e=800-q=200-d=0.25.11	Optimal	(U)	106.46	2257	0.007998	2614.4	9.9569e-05	800	988	1800	7407
p-n=100-e=800-q=200-d=0.25.11	Optimal	(I)	101.91	2257	0.13598	2453.5	9.8682e-05	800	1688	3300	4525
p-n=100-e=800-q=200-d=0.25.11	Optimal	(L)	69.325	2257	0.072989	2453.5	9.9604e-05	800	1688	2500	5909
p-n=100-e=800-q=200-d=0.25.11	Optimal	(P)	325.22	2257	0.019997	2599.7	9.9984e-05	800	988	1800	110961
p-n=100-e=800-q=200-d=0.25.11	Feasible	(STM)	3600	2255.2	0.18897	2597.1	0.038214	800	1688	3300	166118

filename	status	formulation	time	All Instances - Part 3		relax_value	gap	edges	columns	rows	nodes
				value	relax_time						
p-n=100-e=800-q=200-d=0.25.12	Optimal	(U)	9.2206	2209.3	0.008999	2447.4	8.3911e-05	800	993	1800	895
p-n=100-e=800-q=200-d=0.25.12	Optimal	(I)	17.883	2209.3	0.15198	2324.7	8.4792e-05	800	1693	3300	873
p-n=100-e=800-q=200-d=0.25.12	Optimal	(L)	12.224	2209.3	0.06099	2324.7	7.7748e-05	800	1693	2500	851
p-n=100-e=800-q=200-d=0.25.12	Optimal	(P)	11.7	2209.3	0.017998	2434.6	9.8433e-05	800	993	1800	2931
p-n=100-e=800-q=200-d=0.25.12	Optimal	(STM)	1241.1	2209.3	0.23496	2422.3	9.9915e-05	800	1693	3300	133176
p-n=100-e=800-q=200-d=0.25.13	Optimal	(U)	32.281	2076.6	0.006999	2374.3	9.4537e-05	800	992	1800	3753
p-n=100-e=800-q=200-d=0.25.13	Optimal	(I)	68.168	2076.6	0.12398	2237.2	9.9489e-05	800	1692	3300	7935
p-n=100-e=800-q=200-d=0.25.13	Optimal	(L)	101.45	2076.6	0.050992	2237.2	9.9642e-05	800	1692	2500	16423
p-n=100-e=800-q=200-d=0.25.13	Optimal	(P)	296.09	2076.6	0.018997	2361.1	9.9764e-05	800	992	1800	126279
p-n=100-e=800-q=200-d=0.25.13	Feasible	(STM)	3600	2076.6	0.32995	2355.4	0.018742	800	1692	3300	257813
p-n=100-e=800-q=200-d=0.25.14	Optimal	(U)	31.485	2030.3	0.006999	2317.2	8.8811e-05	800	992	1800	2949
p-n=100-e=800-q=200-d=0.25.14	Optimal	(I)	41.032	2030.3	0.11198	2177.2	9.2557e-05	800	1692	3300	3045
p-n=100-e=800-q=200-d=0.25.14	Optimal	(L)	32.084	2030.3	0.050993	2177.2	9.6608e-05	800	1692	2500	3714
p-n=100-e=800-q=200-d=0.25.14	Optimal	(P)	82.144	2030.3	0.013998	2306.8	9.9411e-05	800	992	1800	30382
p-n=100-e=800-q=200-d=0.25.14	Feasible	(STM)	3600.1	2030.3	0.30695	2295.1	0.021209	800	1692	3300	225413
p-n=100-e=800-q=200-d=0.25.15	Optimal	(U)	169.88	2144.9	0.005999	2466.7	9.9e-05	800	990	1800	18241
p-n=100-e=800-q=200-d=0.25.15	Optimal	(I)	218.65	2144.9	0.15598	2339.9	9.7763e-05	800	1690	3300	17440
p-n=100-e=800-q=200-d=0.25.15	Optimal	(L)	138.85	2144.9	0.041993	2339.9	9.9403e-05	800	1690	2500	16200
p-n=100-e=800-q=200-d=0.25.15	Optimal	(P)	785.22	2144.9	0.018997	2457.7	9.996e-05	800	990	1800	324986
p-n=100-e=800-q=200-d=0.25.15	Feasible	(STM)	3600	2144.9	0.27496	2457.6	0.041225	800	1690	3300	193611
p-n=100-e=800-q=200-d=0.25.16	Optimal	(U)	54.189	2054.2	0.007999	2358.3	9.6686e-05	800	989	1800	4135
p-n=100-e=800-q=200-d=0.25.16	Optimal	(I)	64.93	2054.2	0.10298	2216.6	8.9183e-05	800	1689	3300	4651
p-n=100-e=800-q=200-d=0.25.16	Optimal	(L)	91.068	2054.2	0.047993	2216.6	9.9175e-05	800	1689	2500	11054
p-n=100-e=800-q=200-d=0.25.16	Optimal	(P)	134.05	2054.2	0.019997	2348.6	9.8181e-05	800	989	1800	38819
p-n=100-e=800-q=200-d=0.25.16	Feasible	(STM)	3600	2054.2	0.21097	2350.9	0.019857	800	1689	3300	188210
p-n=100-e=800-q=200-d=0.25.17	Optimal	(U)	104.27	2125.9	0.005999	2420.6	9.5599e-05	800	990	1800	9091
p-n=100-e=800-q=200-d=0.25.17	Optimal	(I)	79.151	2125.9	0.096986	2298.2	9.9748e-05	800	1690	3300	6344
p-n=100-e=800-q=200-d=0.25.17	Optimal	(L)	61.74	2125.9	0.06499	2298.2	9.8733e-05	800	1690	2500	8398
p-n=100-e=800-q=200-d=0.25.17	Optimal	(P)	154.52	2125.9	0.021997	2409.9	9.9757e-05	800	990	1800	47386
p-n=100-e=800-q=200-d=0.25.17	Feasible	(STM)	3600	2125.9	0.24396	2427.2	0.026456	800	1690	3300	194811
p-n=100-e=800-q=200-d=0.25.18	Optimal	(U)	45.622	2041.2	0.006999	2349.9	8.3941e-05	800	989	1800	3551
p-n=100-e=800-q=200-d=0.25.18	Optimal	(I)	63.152	2041.2	0.094986	2198.3	9.7613e-05	800	1689	3300	4521
p-n=100-e=800-q=200-d=0.25.18	Optimal	(L)	47.498	2041.2	0.078988	2198.3	9.9388e-05	800	1689	2500	6100
p-n=100-e=800-q=200-d=0.25.18	Optimal	(P)	110.19	2041.2	0.021996	2337	9.8735e-05	800	989	1800	32402
p-n=100-e=800-q=200-d=0.25.18	Feasible	(STM)	3600	2041.2	0.22397	2316.1	0.028549	800	1689	3300	125976
p-n=100-e=800-q=200-d=0.25.19	Optimal	(U)	56.77	2211.9	0.007999	2494.1	9.8003e-05	800	994	1800	6584
p-n=100-e=800-q=200-d=0.25.19	Optimal	(I)	53.424	2211.9	0.13198	2328.7	9.9001e-05	800	1694	3300	3387
p-n=100-e=800-q=200-d=0.25.19	Optimal	(L)	45.466	2211.9	0.061991	2328.7	9.9468e-05	800	1694	2500	5227
p-n=100-e=800-q=200-d=0.25.19	Optimal	(P)	58.471	2211.9	0.019997	2479.4	9.993e-05	800	994	1800	13901
p-n=100-e=800-q=200-d=0.25.19	Feasible	(STM)	3600	2211.9	0.16198	2477	0.017566	800	1694	3300	266841
p-n=150-e=1200-q=200-d=0.25.0	Optimal	(U)	1480.6	3157.7	0.010998	3680.9	9.964e-05	1200	1481	2700	103132
p-n=150-e=1200-q=200-d=0.25.0	Optimal	(I)	1461.2	3157.7	0.18297	3464.4	9.9202e-05	1200	2531	4950	72792
p-n=150-e=1200-q=200-d=0.25.0	Optimal	(L)	1718.5	3157.7	0.11198	3464.4	9.9772e-05	1200	2531	3750	253445
p-n=150-e=1200-q=200-d=0.25.0	Feasible	(P)	3600	3157.7	0.035995	3662.8	0.014424	1200	1481	2700	87922
p-n=150-e=1200-q=200-d=0.25.0	Feasible	(STM)	3600	3157.7	0.42094	3657.3	0.052463	1200	2531	4950	144361
p-n=150-e=1200-q=200-d=0.25.1	Optimal	(U)	74.804	3309.4	0.012998	3740.6	9.6113e-05	1200	1491	2700	3995
p-n=150-e=1200-q=200-d=0.25.1	Optimal	(I)	140.59	3309.4	0.19997	3530.4	9.9606e-05	1200	2541	4950	5403
p-n=150-e=1200-q=200-d=0.25.1	Optimal	(L)	107.97	3309.4	0.10798	3530.4	9.8482e-05	1200	2541	3750	8637
p-n=150-e=1200-q=200-d=0.25.1	Optimal	(P)	397.12	3309.4	0.038994	3722.8	9.9931e-05	1200	1491	2700	81660
p-n=150-e=1200-q=200-d=0.25.1	Feasible	(STM)	3600	3306.2	0.36994	3708.2	0.030736	1200	2541	4950	114192
p-n=150-e=1200-q=200-d=0.25.2	Optimal	(U)	157.1	3087.6	0.011998	3527.9	9.5548e-05	1200	1492	2700	9655
p-n=150-e=1200-q=200-d=0.25.2	Optimal	(I)	361.24	3087.6	0.24496	3336.9	9.913e-05	1200	2542	4950	18343
p-n=150-e=1200-q=200-d=0.25.2	Optimal	(L)	281.41	3087.6	0.091986	3336.9	9.9969e-05	1200	2542	3750	23511
p-n=150-e=1200-q=200-d=0.25.2	Optimal	(P)	970.09	3087.6	0.027996	3504.3	0	1200	1492	2700	323808
p-n=150-e=1200-q=200-d=0.25.2	Feasible	(STM)	3600	3087.6	0.44093	3507	0.027321	1200	2542	4950	132493
p-n=150-e=1200-q=200-d=0.25.3	Optimal	(U)	218.32	3342.9	0.009998	3801.6	9.9153e-05	1200	1488	2700	13726
p-n=150-e=1200-q=200-d=0.25.3	Optimal	(I)	358.36	3342.9	0.16198	3619.6	9.9567e-05	1200	2538	4950	20311
p-n=150-e=1200-q=200-d=0.25.3	Optimal	(L)	243.96	3342.9	0.086987	3619.6	9.9954e-05	1200	2538	3750	28161
p-n=150-e=1200-q=200-d=0.25.3	Optimal	(P)	882.77	3342.9	0.027996	3777.8	9.9918e-05	1200	1488	2700	237039
p-n=150-e=1200-q=200-d=0.25.3	Feasible	(STM)	3600.1	3340.5	0.28396	3800.8	0.030199	1200	2538	4950	145811
p-n=150-e=1200-q=200-d=0.25.4	Optimal	(U)	300.38	3223.5	0.010999	3674.8	9.9518e-05	1200	1484	2700	21851
p-n=150-e=1200-q=200-d=0.25.4	Optimal	(I)	235.57	3223.5	0.15398	3455	9.9819e-05	1200	2534	4950	13199
p-n=150-e=1200-q=200-d=0.25.4	Optimal	(L)	270.58	3223.5	0.088986	3455	9.8168e-05	1200	2534	3750	25658
p-n=150-e=1200-q=200-d=0.25.4	Optimal	(P)	1486.9	3223.5	0.039994	3649.4	9.9945e-05	1200	1484	2700	356109
p-n=150-e=1200-q=200-d=0.25.4	Feasible	(STM)	3600.1	3223.2	0.32395	3656.8	0.028531	1200	2534	4950	118396
p-n=150-e=1200-q=200-d=0.25.5	Optimal	(U)	352.37	3173.5	0.010998	3624.1	9.9777e-05	1200	1487	2700	19281
p-n=150-e=1200-q=200-d=0.25.5	Optimal	(I)	440.29	3173.5	0.30595	3402.8	9.9905e-05	1200	2537	4950	16871
p-n=150-e=1200-q=200-d=0.25.5	Optimal	(L)	353.64	3173.5	0.091987	3402.8	9.9795e-05	1200	2537	3750	28097
p-n=150-e=1200-q=200-d=0.25.5	Feasible	(P)	3600	3173.5	0.022997	3599.3	0.0051219	1200	1487	2700	1045383
p-n=150-e=1200-q=200-d=0.25.5	Feasible	(STM)	3600	3173.5	0.54092	3591.1	0.033239	1200	2537	4950	125188
p-n=150-e=1200-q=200-d=0.25.6	Optimal	(U)	1196.3	3130.7	0.009999	3686.2	9.9423e-05	1200	1476	2700	46461
p-n=150-e=1200-q=200-d=0.25.6	Optimal	(I)	2011.9	3130.7	0.23896	3464.9	9.9993e-05	1200	2526	4950	77332
p-n=150-e=1200-q=200-d=0.25.6	Optimal	(L)	1382	3130.7	0.12098	3464.9	9.9944e-05	1200	2526	3750	83883
p-n=150-e=1200-q=200-d=0.25.6	Feasible	(P)	3600	3130.7	0.030995	3663.8	0.014264	1200	1476	2700	625317
p-n=150-e=1200-q=200-d=0.25.6	Feasible	(STM)	3600.1	3130.1	0.25596	3658.2	0.059864	1200	2526	4950	78271
p-n=150-e=1200-q=200-d=0.25.7	Feasible	(U)	3600	3216.1	0.011998	3707.4	0.0038681	1200	1485	2700	132971
p-n=150-e=1200-q=200-d=0.25.7	Feasible	(I)	3600	3216.1	0.22596	3487.5	0.0029645	1200	2535	4950	147586
p-n=150-e=1200-q=200-d=0.25.7	Feasible	(L)	3600	3216.1	0.10398	3487.5	0.0040491	1200	2535	3750	363686
p-n=150-e=1200-q=200-d=0.25.7	Feasible	(P)	3600	3216.1	0.035995	3686	0.018008	1200	1485	2700	710071
p-n=150-e=1200-q=200-d=0.25.7	Feasible	(STM)	3600.1	3216.1	0.45393	3658.7	0.044513	1200	2535	4950	122211

filename	status	formulation	time	All Instances - Part 4		relax_value	gap	edges	columns	rows	nodes
				value	relax.time						
p-n=150-e=1200-q=200-d=0.25.8	Optimal	(U)	897.44	3303.9	0.008999	3802.8	9.9792e-05	1200	1487	2700	49012
p-n=150-e=1200-q=200-d=0.25.8	Optimal	(I)	1725.7	3303.9	0.20797	3595.7	9.9913e-05	1200	2537	4950	89461
p-n=150-e=1200-q=200-d=0.25.8	Optimal	(L)	889.23	3303.9	0.088987	3595.7	9.9892e-05	1200	2537	3750	89237
p-n=150-e=1200-q=200-d=0.25.8	Feasible	(P)	3600	3303.9	0.032995	3774.1	0.0077325	1200	1487	2700	921473
p-n=150-e=1200-q=200-d=0.25.8	Feasible	(STM)	3600	3303.9	0.42294	3781.5	0.03606	1200	2537	4950	131230
p-n=150-e=1200-q=200-d=0.25.9	Optimal	(U)	574.4	3384	0.011998	3855.2	9.9114e-05	1200	1486	2700	29703
p-n=150-e=1200-q=200-d=0.25.9	Optimal	(I)	560.7	3384	0.26196	3654.4	9.9652e-05	1200	2536	4950	28921
p-n=150-e=1200-q=200-d=0.25.9	Optimal	(L)	175.11	3384	0.11898	3654.4	9.9947e-05	1200	2536	3750	13552
p-n=150-e=1200-q=200-d=0.25.9	Optimal	(P)	3029	3384	0.039994	3834.5	9.998e-05	1200	1486	2700	695567
p-n=150-e=1200-q=200-d=0.25.9	Feasible	(STM)	3600	3384	0.32095	3814.7	0.036321	1200	2536	4950	110187
p-n=150-e=1200-q=200-d=0.25.10	Feasible	(U)	3600	3103	0.012998	3646.9	0.014573	1200	1486	2700	99172
p-n=150-e=1200-q=200-d=0.25.10	Feasible	(I)	3600	3103	0.25496	3428.4	0.010823	1200	2536	4950	119087
p-n=150-e=1200-q=200-d=0.25.10	Feasible	(L)	3600	3103	0.11798	3428.4	0.01307	1200	2536	3750	285087
p-n=150-e=1200-q=200-d=0.25.10	Feasible	(P)	3600	3103	0.029996	3627.5	0.02567	1200	1486	2700	1069021
p-n=150-e=1200-q=200-d=0.25.10	Feasible	(STM)	3600	3094.8	0.37794	3612.5	0.070473	1200	2536	4950	120811
p-n=150-e=1200-q=200-d=0.25.11	Optimal	(U)	1017.9	3132.7	0.013998	3628.3	9.9785e-05	1200	1489	2700	51897
p-n=150-e=1200-q=200-d=0.25.11	Optimal	(I)	483.12	3132.7	0.18397	3415.7	9.9746e-05	1200	2539	4950	31898
p-n=150-e=1200-q=200-d=0.25.11	Optimal	(L)	651.48	3132.7	0.085987	3415.7	9.9984e-05	1200	2539	3750	89877
p-n=150-e=1200-q=200-d=0.25.11	Feasible	(P)	3600	3132.7	0.033995	3606.4	0.0063949	1200	1489	2700	846467
p-n=150-e=1200-q=200-d=0.25.11	Feasible	(STM)	3600	3132.7	0.52192	3582.5	0.034921	1200	2539	4950	96390
p-n=150-e=1200-q=200-d=0.25.12	Optimal	(U)	149.77	3153.9	0.010999	3575.8	9.83e-05	1200	1485	2700	11185
p-n=150-e=1200-q=200-d=0.25.12	Optimal	(I)	301.78	3153.9	0.21997	3370.7	9.9596e-05	1200	2535	4950	14921
p-n=150-e=1200-q=200-d=0.25.12	Optimal	(L)	130.37	3153.9	0.077988	3370.7	9.9586e-05	1200	2535	3750	16282
p-n=150-e=1200-q=200-d=0.25.12	Optimal	(P)	1297.6	3153.9	0.030996	3561.6	9.9939e-05	1200	1485	2700	405859
p-n=150-e=1200-q=200-d=0.25.12	Feasible	(STM)	3600.1	3153.9	0.29996	3546.8	0.030177	1200	2535	4950	124386
p-n=150-e=1200-q=200-d=0.25.13	Optimal	(U)	2844.3	3067.8	0.010999	3545.4	9.9931e-05	1200	1483	2700	145071
p-n=150-e=1200-q=200-d=0.25.13	Optimal	(I)	1591	3067.8	0.18897	3354.9	9.9861e-05	1200	2533	4950	84274
p-n=150-e=1200-q=200-d=0.25.13	Feasible	(L)	3600	3067.8	0.10898	3354.9	0.0033283	1200	2533	3750	205367
p-n=150-e=1200-q=200-d=0.25.13	Feasible	(P)	3600.1	3067.8	0.031995	3521.8	0.013198	1200	1483	2700	725524
p-n=150-e=1200-q=200-d=0.25.13	Feasible	(STM)	3600	3067.8	0.39894	3542.9	0.050959	1200	2533	4950	114918
p-n=150-e=1200-q=200-d=0.25.14	Feasible	(U)	3600	3185.4	0.012998	3745.1	0.0048199	1200	1483	2700	105265
p-n=150-e=1200-q=200-d=0.25.14	Feasible	(I)	3600	3185.4	0.22397	3504.8	0.005003	1200	2533	4950	151084
p-n=150-e=1200-q=200-d=0.25.14	Feasible	(L)	3600	3185.4	0.11098	3504.8	0.0037664	1200	2533	3750	318575
p-n=150-e=1200-q=200-d=0.25.14	Feasible	(P)	3600	3185.4	0.039994	3723.2	0.014132	1200	1483	2700	638935
p-n=150-e=1200-q=200-d=0.25.14	Feasible	(STM)	3600	3181.1	0.32895	3752.3	0.054618	1200	2533	4950	141401
p-n=150-e=1200-q=200-d=0.25.15	Optimal	(U)	866.83	3334.2	0.011998	3837.4	9.9322e-05	1200	1486	2700	32346
p-n=150-e=1200-q=200-d=0.25.15	Optimal	(I)	620.1	3334.2	0.28996	3596.6	9.9464e-05	1200	2536	4950	20859
p-n=150-e=1200-q=200-d=0.25.15	Optimal	(L)	438.16	3334.2	0.10698	3596.6	9.9623e-05	1200	2536	3750	34839
p-n=150-e=1200-q=200-d=0.25.15	Feasible	(P)	3600	3334.2	0.032995	3823.1	0.0050582	1200	1486	2700	874743
p-n=150-e=1200-q=200-d=0.25.15	Feasible	(STM)	3600	3334.2	0.53792	3762.7	0.037484	1200	2536	4950	75751
p-n=150-e=1200-q=200-d=0.25.16	Feasible	(U)	3600	3155.6	0.010998	3690.6	0.0073831	1200	1481	2700	133022
p-n=150-e=1200-q=200-d=0.25.16	Feasible	(I)	3600	3155.6	0.20897	3469.3	0.007021	1200	2531	4950	165417
p-n=150-e=1200-q=200-d=0.25.16	Feasible	(L)	3600.1	3155.6	0.090986	3469.3	0.0041938	1200	2531	3750	323682
p-n=150-e=1200-q=200-d=0.25.16	Feasible	(P)	3600.1	3155.6	0.032995	3670.7	0.026249	1200	1481	2700	864622
p-n=150-e=1200-q=200-d=0.25.16	Feasible	(STM)	3600	3154.8	0.51892	3680.1	0.061944	1200	2531	4950	122182
p-n=150-e=1200-q=200-d=0.25.17	Feasible	(U)	3600	3074.5	0.008999	3667.7	0.0049066	1200	1482	2700	114913
p-n=150-e=1200-q=200-d=0.25.17	Feasible	(I)	3600.1	3074.5	0.27996	3433.9	0.0057346	1200	2532	4950	115183
p-n=150-e=1200-q=200-d=0.25.17	Feasible	(L)	3600	3074.5	0.12498	3433.9	0.008554	1200	2532	3750	248683
p-n=150-e=1200-q=200-d=0.25.17	Feasible	(P)	3600	3074.5	0.032995	3642.3	0.028438	1200	1482	2700	987523
p-n=150-e=1200-q=200-d=0.25.17	Feasible	(STM)	3600.1	3067.9	0.33895	3647.7	0.071107	1200	2532	4950	89841
p-n=150-e=1200-q=200-d=0.25.18	Optimal	(U)	146.35	3255.7	0.010998	3680.5	9.8382e-05	1200	1485	2700	7886
p-n=150-e=1200-q=200-d=0.25.18	Optimal	(I)	152.55	3255.7	0.17197	3503.4	9.8334e-05	1200	2535	4950	7767
p-n=150-e=1200-q=200-d=0.25.18	Optimal	(L)	165.96	3255.7	0.093986	3503.4	9.9719e-05	1200	2535	3750	15018
p-n=150-e=1200-q=200-d=0.25.18	Optimal	(P)	1557.4	3255.7	0.037994	3664.6	9.996e-05	1200	1485	2700	445225
p-n=150-e=1200-q=200-d=0.25.18	Feasible	(STM)	3600	3255.7	0.49893	3687	0.031753	1200	2535	4950	106451
p-n=150-e=1200-q=200-d=0.25.19	Feasible	(U)	3600	3088	0.011998	3643	0.0087773	1200	1483	2700	57339
p-n=150-e=1200-q=200-d=0.25.19	Feasible	(I)	3600.1	3088	0.27496	3411.1	0.0070284	1200	2533	4950	74384
p-n=150-e=1200-q=200-d=0.25.19	Optimal	(L)	3581.5	3088	0.11198	3411.1	9.9886e-05	1200	2533	3750	358960
p-n=150-e=1200-q=200-d=0.25.19	Feasible	(P)	3600	3088	0.039994	3619.5	0.023907	1200	1483	2700	838624
p-n=150-e=1200-q=200-d=0.25.19	Feasible	(STM)	3600.1	3077.9	0.6359	3606.3	0.070872	1200	2533	4950	137011
p-n=200-e=1600-q=200-d=0.25.0	Feasible	(U)	3600	4078.3	0.021997	4708.1	0.014327	1600	1982	3600	58861
p-n=200-e=1600-q=200-d=0.25.0	Feasible	(I)	3600.1	4077.7	0.32395	4461.1	0.0066127	1600	3382	6600	95778
p-n=200-e=1600-q=200-d=0.25.0	Feasible	(L)	3600.1	4078.3	0.15998	4461.1	0.0088133	1600	3382	5000	222078
p-n=200-e=1600-q=200-d=0.25.0	Feasible	(P)	3600	4067.2	0.042993	4687.2	0.02818	1600	1982	3600	679501
p-n=200-e=1600-q=200-d=0.25.0	Feasible	(STM)	3600.1	4064.3	1.0898	4692.6	0.0648	1600	3382	6600	92131
p-n=200-e=1600-q=200-d=0.25.1	Feasible	(U)	3600.1	4308.3	0.015998	4949.4	0.0098543	1600	1981	3600	46566
p-n=200-e=1600-q=200-d=0.25.1	Feasible	(I)	3600	4308.3	0.39494	4676.9	0.01162	1600	3381	6600	51508
p-n=200-e=1600-q=200-d=0.25.1	Feasible	(L)	3600.1	4308.3	0.19497	4676.9	0.0094979	1600	3381	5000	152277
p-n=200-e=1600-q=200-d=0.25.1	Feasible	(P)	3600	4308.3	0.053992	4921.9	0.025232	1600	1981	3600	343152
p-n=200-e=1600-q=200-d=0.25.1	Feasible	(STM)	3600.1	4294.6	0.55592	4914.2	0.057598	1600	3381	6600	77701
p-n=200-e=1600-q=200-d=0.25.2	Optimal	(U)	2144.1	4239.8	0.019997	4867.3	9.9749e-05	1600	1981	3600	89125
p-n=200-e=1600-q=200-d=0.25.2	Optimal	(I)	1668.1	4239.8	0.43394	4609.5	9.9849e-05	1600	3381	6600	43654
p-n=200-e=1600-q=200-d=0.25.2	Optimal	(L)	1234.2	4239.8	0.12098	4609.5	9.9978e-05	1600	3381	5000	90004
p-n=200-e=1600-q=200-d=0.25.2	Feasible	(P)	3600	4239.8	0.028995	4844.4	0.015753	1600	1981	3600	689991
p-n=200-e=1600-q=200-d=0.25.2	Feasible	(STM)	3600	4239.8	0.76188	4837.3	0.04301	1600	3381	6600	65001
p-n=200-e=1600-q=200-d=0.25.3	Feasible	(U)	3600	4161.2	0.017997	4694.5	0.0034616	1600	1985	3600	71926
p-n=200-e=1600-q=200-d=0.25.3	Optimal	(I)	1532.5	4161.2	0.27196	4441.2	9.9915e-05	1600	3385	6600	65743
p-n=200-e=1600-q=200-d=0.25.3	Optimal	(L)	974.63	4161.2	0.17897	4441.2	9.9704e-05	1600	3385	5000	64714
p-n=200-e=1600-q=200-d=0.25.3	Feasible	(P)	3600	4161.2	0.035995	4672.8	0.0097904	1600	1985	3600	544617
p-n=200-e=1600-q=200-d=0.25.3	Feasible	(STM)	3600	4161.2	0.57791	4670.3	0.033838	1600	3385	6600	65981

All Instances - Part 5											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=200-e=1600-q=200-d=0.25.4	Feasible	(U)	3600.1	4167.2	0.017998	4826.7	0.0053135	1600	1980	3600	84451
p-n=200-e=1600-q=200-d=0.25.4	Feasible	(I)	3600	4167.2	0.43493	4528.6	0.0047275	1600	3380	6600	114259
p-n=200-e=1600-q=200-d=0.25.4	Optimal	(L)	3501.3	4167.2	0.13798	4528.6	9.999e-05	1600	3380	5000	226518
p-n=200-e=1600-q=200-d=0.25.4	Feasible	(P)	3600	4167.2	0.040993	4796.9	0.019239	1600	1980	3600	569381
p-n=200-e=1600-q=200-d=0.25.4	Feasible	(STM)	3600	4167.2	0.6519	4777.2	0.047653	1600	3380	6600	149354
p-n=200-e=1600-q=200-d=0.25.5	Feasible	(U)	3600.1	4372.4	0.023996	5050.2	0.013818	1600	1977	3600	49303
p-n=200-e=1600-q=200-d=0.25.5	Feasible	(I)	3600	4372.9	0.27396	4782.8	0.01121	1600	3377	6600	75373
p-n=200-e=1600-q=200-d=0.25.5	Feasible	(L)	3600	4372.9	0.15698	4782.8	0.013185	1600	3377	5000	98773
p-n=200-e=1600-q=200-d=0.25.5	Feasible	(P)	3600	4372.9	0.058991	5025.8	0.027212	1600	1977	3600	440641
p-n=200-e=1600-q=200-d=0.25.5	Feasible	(STM)	3600	4372.4	0.90686	5031.7	0.044689	1600	3377	6600	65800
p-n=200-e=1600-q=200-d=0.25.6	Optimal	(U)	2886.3	4154.8	0.029995	4758.5	9.9937e-05	1600	1982	3600	99100
p-n=200-e=1600-q=200-d=0.25.6	Optimal	(I)	2883.2	4154.8	0.42394	4475.6	9.9998e-05	1600	3382	6600	82825
p-n=200-e=1600-q=200-d=0.25.6	Optimal	(L)	2126.9	4154.8	0.17497	4475.6	9.9897e-05	1600	3382	5000	113311
p-n=200-e=1600-q=200-d=0.25.6	Feasible	(P)	3600	4154.8	0.047993	4725	0.011293	1600	1982	3600	630821
p-n=200-e=1600-q=200-d=0.25.6	Feasible	(STM)	3600.1	4154.8	0.6339	4761.2	0.038979	1600	3382	6600	52611
p-n=200-e=1600-q=200-d=0.25.7	Optimal	(U)	434.69	4434.9	0.016997	5017.5	9.8982e-05	1600	1983	3600	18557
p-n=200-e=1600-q=200-d=0.25.7	Optimal	(I)	299.98	4434.9	0.33295	4730.1	9.9514e-05	1600	3383	6600	10578
p-n=200-e=1600-q=200-d=0.25.7	Optimal	(L)	263.24	4434.9	0.16897	4730.1	9.9704e-05	1600	3383	5000	14194
p-n=200-e=1600-q=200-d=0.25.7	Feasible	(P)	3600	4434.9	0.057991	4986.7	0.0020212	1600	1983	3600	592491
p-n=200-e=1600-q=200-d=0.25.7	Feasible	(STM)	3600	4434.9	1.1468	4980.1	0.027257	1600	3383	6600	80601
p-n=200-e=1600-q=200-d=0.25.8	Feasible	(U)	3600.1	4401.4	0.020997	5151.6	0.0056592	1600	1984	3600	48563
p-n=200-e=1600-q=200-d=0.25.8	Feasible	(I)	3600	4401.4	0.37194	4824.9	0.0029116	1600	3384	6600	79191
p-n=200-e=1600-q=200-d=0.25.8	Feasible	(L)	3600	4401.4	0.19697	4824.9	0.0016902	1600	3384	5000	117230
p-n=200-e=1600-q=200-d=0.25.8	Feasible	(P)	3600	4401.4	0.038994	5123.2	0.022124	1600	1984	3600	422401
p-n=200-e=1600-q=200-d=0.25.8	Feasible	(STM)	3600.1	4394.6	0.59891	5117.2	0.054092	1600	3384	6600	68841
p-n=200-e=1600-q=200-d=0.25.9	Feasible	(U)	3600.1	4417.7	0.014998	5138.3	0.0052134	1600	1978	3600	56732
p-n=200-e=1600-q=200-d=0.25.9	Feasible	(I)	3600	4417.7	0.34395	4871.3	0.0041375	1600	3378	6600	89074
p-n=200-e=1600-q=200-d=0.25.9	Feasible	(L)	3600	4417.7	0.19497	4871.3	0.0034415	1600	3378	5000	174239
p-n=200-e=1600-q=200-d=0.25.9	Feasible	(P)	3600	4417.7	0.054992	5106.2	0.01706	1600	1978	3600	547851
p-n=200-e=1600-q=200-d=0.25.9	Feasible	(STM)	3600.1	4416.5	0.50992	5117.9	0.052074	1600	3378	6600	62665
p-n=200-e=1600-q=200-d=0.25.10	Feasible	(U)	3600	4146.1	0.017997	4877	0.016856	1600	1978	3600	50504
p-n=200-e=1600-q=200-d=0.25.10	Feasible	(I)	3600	4146.1	0.32195	4571.9	0.012945	1600	3378	6600	75874
p-n=200-e=1600-q=200-d=0.25.10	Feasible	(L)	3600	4146.1	0.19397	4571.9	0.012221	1600	3378	5000	106245
p-n=200-e=1600-q=200-d=0.25.10	Feasible	(P)	3600	4146.1	0.046992	4837.7	0.028892	1600	1978	3600	621704
p-n=200-e=1600-q=200-d=0.25.10	Feasible	(STM)	3600.1	4134.2	0.52492	4867.4	0.064749	1600	3378	6600	84521
p-n=200-e=1600-q=200-d=0.25.11	Feasible	(U)	3600	4124.2	0.011999	4791.3	0.0052486	1600	1986	3600	72751
p-n=200-e=1600-q=200-d=0.25.11	Feasible	(I)	3600.1	4124.2	0.6579	4467.8	0.0028389	1600	3386	6600	92582
p-n=200-e=1600-q=200-d=0.25.11	Feasible	(L)	3600	4124.2	0.24496	4467.8	0.0017851	1600	3386	5000	178282
p-n=200-e=1600-q=200-d=0.25.11	Feasible	(P)	3600.1	4124.2	0.048992	4755.6	0.018673	1600	1986	3600	577790
p-n=200-e=1600-q=200-d=0.25.11	Feasible	(STM)	3600.1	4124.1	0.54892	4729.7	0.054647	1600	3386	6600	95182
p-n=200-e=1600-q=200-d=0.25.12	Feasible	(U)	3600.1	4362.2	0.015998	4944.5	0.0049692	1600	1978	3600	45693
p-n=200-e=1600-q=200-d=0.25.12	Feasible	(I)	3600.1	4362.2	0.23197	4662.9	0.0038506	1600	3378	6600	66508
p-n=200-e=1600-q=200-d=0.25.12	Optimal	(L)	1610.9	4362.2	0.16398	4662.9	9.9829e-05	1600	3378	5000	52936
p-n=200-e=1600-q=200-d=0.25.12	Feasible	(P)	3600	4362.2	0.034994	4914.3	0.013326	1600	1978	3600	527505
p-n=200-e=1600-q=200-d=0.25.12	Feasible	(STM)	3600	4362.2	0.41494	4925.1	0.03908	1600	3378	6600	56911
p-n=200-e=1600-q=200-d=0.25.13	Feasible	(U)	3600.1	4285	0.023996	4992	0.010871	1600	1981	3600	43833
p-n=200-e=1600-q=200-d=0.25.13	Feasible	(I)	3600	4285	0.42594	4688	0.0071136	1600	3381	6600	67662
p-n=200-e=1600-q=200-d=0.25.13	Feasible	(L)	3600	4285	0.20597	4688	0.0089541	1600	3381	5000	106877
p-n=200-e=1600-q=200-d=0.25.13	Feasible	(P)	3600.1	4285	0.056992	4966.7	0.021936	1600	1981	3600	540101
p-n=200-e=1600-q=200-d=0.25.13	Feasible	(STM)	3600.1	4285	1.0478	4932.7	0.044819	1600	3381	6600	72971
p-n=200-e=1600-q=200-d=0.25.14	Feasible	(U)	3600	4379	0.017998	5129.4	0.013442	1600	1983	3600	56861
p-n=200-e=1600-q=200-d=0.25.14	Feasible	(I)	3600	4379	0.41494	4846.1	0.011774	1600	3383	6600	65619
p-n=200-e=1600-q=200-d=0.25.14	Feasible	(L)	3600.1	4379	0.17597	4846.1	0.01288	1600	3383	5000	130379
p-n=200-e=1600-q=200-d=0.25.14	Feasible	(P)	3600	4379	0.056991	5103.4	0.030223	1600	1983	3600	388848
p-n=200-e=1600-q=200-d=0.25.14	Feasible	(STM)	3600.1	4368.6	0.54892	5085.9	0.068007	1600	3383	6600	58091
p-n=200-e=1600-q=200-d=0.25.15	Feasible	(U)	3600	4360.8	0.018997	4985.1	0.0039528	1600	1969	3600	68395
p-n=200-e=1600-q=200-d=0.25.15	Feasible	(I)	3600	4360.8	0.42494	4690.9	0.0023787	1600	3369	6600	68865
p-n=200-e=1600-q=200-d=0.25.15	Feasible	(L)	3600	4360.8	0.10998	4690.9	0.0016278	1600	3369	5000	156771
p-n=200-e=1600-q=200-d=0.25.15	Feasible	(P)	3600	4360.8	0.031996	4951.4	0.011304	1600	1969	3600	534521
p-n=200-e=1600-q=200-d=0.25.15	Feasible	(STM)	3600	4360.8	0.73789	4945.4	0.041451	1600	3369	6600	68031
p-n=200-e=1600-q=200-d=0.25.16	Feasible	(U)	3600.1	4280.9	0.020997	4918.3	0.014786	1600	1967	3600	50393
p-n=200-e=1600-q=200-d=0.25.16	Feasible	(I)	3600.1	4280.9	0.27896	4639.3	0.010115	1600	3367	6600	72481
p-n=200-e=1600-q=200-d=0.25.16	Feasible	(L)	3600	4280.9	0.12398	4639.3	0.0081344	1600	3367	5000	105863
p-n=200-e=1600-q=200-d=0.25.16	Feasible	(P)	3600.1	4280.9	0.051992	4886.5	0.0269	1600	1967	3600	440511
p-n=200-e=1600-q=200-d=0.25.16	Feasible	(STM)	3600.1	4280.9	1.0009	4904.6	0.052514	1600	3367	6600	52931
p-n=200-e=1600-q=200-d=0.25.17	Optimal	(U)	871.91	4291.6	0.016997	4868.6	9.993e-05	1600	1973	3600	27331
p-n=200-e=1600-q=200-d=0.25.17	Optimal	(I)	2345.8	4291.6	0.37394	4570.4	9.9947e-05	1600	3373	6600	49437
p-n=200-e=1600-q=200-d=0.25.17	Optimal	(L)	577.66	4291.6	0.17497	4570.4	9.9599e-05	1600	3373	5000	18978
p-n=200-e=1600-q=200-d=0.25.17	Feasible	(P)	3600	4291.6	0.041994	4842.4	0.0091774	1600	1973	3600	560699
p-n=200-e=1600-q=200-d=0.25.17	Feasible	(STM)	3600.2	4291.6	1.1748	4833.5	0.036375	1600	3373	6600	67091
p-n=200-e=1600-q=200-d=0.25.18	Feasible	(U)	3600.1	4103.1	0.016997	4851.4	0.016671	1600	1980	3600	70651
p-n=200-e=1600-q=200-d=0.25.18	Feasible	(I)	3600	4103.1	0.36594	4593.9	0.015987	1600	3380	6600	71376
p-n=200-e=1600-q=200-d=0.25.18	Feasible	(L)	3600.1	4103.1	0.22997	4593.9	0.014913	1600	3380	5000	111676
p-n=200-e=1600-q=200-d=0.25.18	Feasible	(P)	3600	4103.1	0.048993	4825.2	0.036746	1600	1980	3600	478141
p-n=200-e=1600-q=200-d=0.25.18	Feasible	(STM)	3600.1	4080.4	0.77488	4847.7	0.083167	1600	3380	6600	97276
p-n=200-e=1600-q=200-d=0.25.19	Feasible	(U)	3600	4278.6	0.010999	4920.1	0.013092	1600	1977	3600	75732
p-n=200-e=1600-q=200-d=0.25.19	Feasible	(I)	3600	4278.6	0.16198	4664.4	0.011179	1600	3377	6600	103673
p-n=200-e=1600-q=200-d=0.25.19	Feasible	(L)	3600	4278.6	0.093986	4664.4	0.010996	1600	3377	5000	180756
p-n=200-e=1600-q=200-d=0.25.19	Feasible	(P)	3600	4278.6	0.025996	4885.8	0.026088	1600	1977	3600	809503
p-n=200-e=1600-q=200-d=0.25.19	Feasible	(STM)	3600.1	4274.1	0.58491	4910.1	0.053405	1600	3377	6600	91221

All Instances - Part 6											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=250-e=2000-q=200-d=0.25.0	Feasible	(U)	3600.1	5465	0.017997	6314.8	0.023665	2000	2464	4500	51965
p-n=250-e=2000-q=200-d=0.25.0	Feasible	(I)	3600.1	5459.8	0.51592	5991.8	0.023093	2000	4214	8250	45795
p-n=250-e=2000-q=200-d=0.25.0	Feasible	(L)	3600.1	5462	0.25796	5991.8	0.019937	2000	4214	6250	89295
p-n=250-e=2000-q=200-d=0.25.0	Feasible	(P)	3600	5461.2	0.047993	6287.6	0.037879	2000	2464	4500	359261
p-n=250-e=2000-q=200-d=0.25.0	Feasible	(STM)	3600.1	5437.4	0.40794	6252.3	0.070327	2000	4214	8250	52791
p-n=250-e=2000-q=200-d=0.25.1	Feasible	(U)	3600	5341.1	0.021997	6217.7	0.016568	2000	2472	4500	44123
p-n=250-e=2000-q=200-d=0.25.1	Feasible	(I)	3600.1	5336.5	0.53292	5905.3	0.017361	2000	4222	8250	37503
p-n=250-e=2000-q=200-d=0.25.1	Feasible	(L)	3600	5336.5	0.22197	5905.3	0.016989	2000	4222	6250	98511
p-n=250-e=2000-q=200-d=0.25.1	Feasible	(P)	3600	5341.1	0.099985	6182.1	0.0311	2000	2472	4500	381511
p-n=250-e=2000-q=200-d=0.25.1	Feasible	(STM)	3600.1	5330.1	0.56392	6156.9	0.056111	2000	4222	8250	50811
p-n=250-e=2000-q=200-d=0.25.2	Feasible	(U)	3600	5186.5	0.019997	5947.8	0.0091112	2000	2476	4500	43902
p-n=250-e=2000-q=200-d=0.25.2	Feasible	(I)	3600.1	5184.4	0.6869	5624.8	0.010969	2000	4226	8250	39207
p-n=250-e=2000-q=200-d=0.25.2	Feasible	(L)	3600	5186.5	0.14498	5624.8	0.0077448	2000	4226	6250	96932
p-n=250-e=2000-q=200-d=0.25.2	Feasible	(P)	3600	5186.5	0.043993	5914.1	0.020326	2000	2476	4500	417272
p-n=250-e=2000-q=200-d=0.25.2	Feasible	(STM)	3600	5181.8	0.47393	5931.5	0.052808	2000	4226	8250	51241
p-n=250-e=2000-q=200-d=0.25.3	Feasible	(U)	3600	5334.4	0.023997	6251.8	0.022304	2000	2466	4500	51721
p-n=250-e=2000-q=200-d=0.25.3	Feasible	(I)	3600.1	5334.4	0.48293	5870.6	0.016789	2000	4216	8250	56297
p-n=250-e=2000-q=200-d=0.25.3	Feasible	(L)	3600	5334.4	0.25596	5870.6	0.017857	2000	4216	6250	72951
p-n=250-e=2000-q=200-d=0.25.3	Feasible	(P)	3600.1	5334.4	0.06199	6216.5	0.035981	2000	2466	4500	325941
p-n=250-e=2000-q=200-d=0.25.3	Feasible	(STM)	3600.1	5333.5	0.49193	6224.4	0.074025	2000	4216	8250	47097
p-n=250-e=2000-q=200-d=0.25.4	Feasible	(U)	3600	5313.8	0.021997	6128.2	0.01414	2000	2464	4500	52415
p-n=250-e=2000-q=200-d=0.25.4	Feasible	(I)	3600	5313.8	0.42094	5766.8	0.014109	2000	4214	8250	45649
p-n=250-e=2000-q=200-d=0.25.4	Feasible	(L)	3600.1	5313.8	0.23896	5766.8	0.012599	2000	4214	6250	122695
p-n=250-e=2000-q=200-d=0.25.4	Feasible	(P)	3600.1	5313.8	0.056992	6097.1	0.029469	2000	2464	4500	413081
p-n=250-e=2000-q=200-d=0.25.4	Feasible	(STM)	3600.1	5305.4	0.41994	6066.7	0.058459	2000	4214	8250	64741
p-n=250-e=2000-q=200-d=0.25.5	Feasible	(U)	3600	5148.5	0.025996	6096.7	0.022865	2000	2473	4500	39424
p-n=250-e=2000-q=200-d=0.25.5	Feasible	(I)	3600.1	5148.5	0.55292	5706.8	0.025094	2000	4223	8250	31657
p-n=250-e=2000-q=200-d=0.25.5	Feasible	(L)	3600	5147.2	0.21597	5706.8	0.020521	2000	4223	6250	79204
p-n=250-e=2000-q=200-d=0.25.5	Feasible	(P)	3600	5148.5	0.078988	6050.6	0.043721	2000	2473	4500	341211
p-n=250-e=2000-q=200-d=0.25.5	Feasible	(STM)	3600	5134.8	0.27396	6079	0.080314	2000	4223	8250	52199
p-n=250-e=2000-q=200-d=0.25.6	Feasible	(U)	3600	5256.3	0.033995	6094.8	0.011284	2000	2477	4500	39083
p-n=250-e=2000-q=200-d=0.25.6	Feasible	(I)	3600.1	5256.3	0.50292	5781.4	0.0076694	2000	4227	8250	70231
p-n=250-e=2000-q=200-d=0.25.6	Feasible	(L)	3600.1	5256.3	0.32695	5781.4	0.0088327	2000	4227	6250	86608
p-n=250-e=2000-q=200-d=0.25.6	Feasible	(P)	3600	5256.3	0.06599	6061.1	0.026604	2000	2477	4500	432286
p-n=250-e=2000-q=200-d=0.25.6	Feasible	(STM)	3600.1	5254.2	0.44593	6083	0.062431	2000	4227	8250	56811
p-n=250-e=2000-q=200-d=0.25.7	Feasible	(U)	3600	5279.4	0.021997	6098.4	0.010179	2000	2478	4500	73889
p-n=250-e=2000-q=200-d=0.25.7	Feasible	(I)	3600	5279.4	0.40494	5741.1	0.0065305	2000	4228	8250	88809
p-n=250-e=2000-q=200-d=0.25.7	Feasible	(L)	3600	5279.4	0.40894	5741.1	0.0072644	2000	4228	6250	131509
p-n=250-e=2000-q=200-d=0.25.7	Feasible	(P)	3600	5279.4	0.059991	6059.9	0.023027	2000	2478	4500	312031
p-n=250-e=2000-q=200-d=0.25.7	Feasible	(STM)	3600.1	5273.7	0.36095	6077.7	0.051417	2000	4228	8250	60991
p-n=250-e=2000-q=200-d=0.25.8	Feasible	(U)	3600	5562.6	0.024996	6365.6	0.0081651	2000	2469	4500	32387
p-n=250-e=2000-q=200-d=0.25.8	Feasible	(I)	3600.1	5562.6	0.52792	5989.8	0.0063748	2000	4219	8250	40300
p-n=250-e=2000-q=200-d=0.25.8	Feasible	(L)	3600.1	5562.6	0.26096	5989.8	0.0057431	2000	4219	6250	79600
p-n=250-e=2000-q=200-d=0.25.8	Feasible	(P)	3600	5562.6	0.06499	6332.5	0.021945	2000	2469	4500	377302
p-n=250-e=2000-q=200-d=0.25.8	Feasible	(STM)	3600.1	5560.1	0.41294	6301.9	0.048503	2000	4219	8250	39900
p-n=250-e=2000-q=200-d=0.25.9	Feasible	(U)	3600	5120.6	0.024997	5962.6	0.015487	2000	2460	4500	39308
p-n=250-e=2000-q=200-d=0.25.9	Feasible	(I)	3600.1	5120.6	0.37294	5671.5	0.010573	2000	4210	8250	69091
p-n=250-e=2000-q=200-d=0.25.9	Feasible	(L)	3600	5120.6	0.20597	5671.5	0.013127	2000	4210	6250	198001
p-n=250-e=2000-q=200-d=0.25.9	Feasible	(P)	3600.1	5120.6	0.060991	5919.6	0.032537	2000	2460	4500	520401
p-n=250-e=2000-q=200-d=0.25.9	Feasible	(STM)	3600.1	5100.8	0.39994	5992.7	0.063413	2000	4210	8250	57161
p-n=250-e=2000-q=200-d=0.25.10	Feasible	(U)	3600	5274.4	0.025996	6180.6	0.023404	2000	2475	4500	45151
p-n=250-e=2000-q=200-d=0.25.10	Feasible	(I)	3600.1	5275.5	0.43593	5847.1	0.022859	2000	4225	8250	39228
p-n=250-e=2000-q=200-d=0.25.10	Feasible	(L)	3600.1	5275.7	0.28896	5847.1	0.022652	2000	4225	6250	50621
p-n=250-e=2000-q=200-d=0.25.10	Feasible	(P)	3600.1	5275.5	0.080988	6145.3	0.042012	2000	2475	4500	404382
p-n=250-e=2000-q=200-d=0.25.10	Feasible	(STM)	3600.1	5271.2	0.37894	6174.8	0.077369	2000	4225	8250	64721
p-n=250-e=2000-q=200-d=0.25.11	Feasible	(U)	3600	5592.9	0.027996	6435.3	0.015481	2000	2469	4500	36867
p-n=250-e=2000-q=200-d=0.25.11	Feasible	(I)	3600.1	5592.9	0.47193	6091.7	0.012895	2000	4219	8250	37300
p-n=250-e=2000-q=200-d=0.25.11	Feasible	(L)	3600.1	5592.9	0.24296	6091.7	0.011682	2000	4219	6250	54547
p-n=250-e=2000-q=200-d=0.25.11	Feasible	(P)	3600	5592.9	0.061991	6409.3	0.033675	2000	2469	4500	240974
p-n=250-e=2000-q=200-d=0.25.11	Feasible	(STM)	3600.1	5587.7	0.51192	6388.1	0.061894	2000	4219	8250	40231
p-n=250-e=2000-q=200-d=0.25.12	Feasible	(U)	3600	5355.7	0.024996	6208.1	0.011414	2000	2469	4500	37120
p-n=250-e=2000-q=200-d=0.25.12	Feasible	(I)	3600.1	5355.7	0.43094	5853.3	0.011376	2000	4219	8250	45911
p-n=250-e=2000-q=200-d=0.25.12	Feasible	(L)	3600	5355.7	0.21497	5853.3	0.01044	2000	4219	6250	81200
p-n=250-e=2000-q=200-d=0.25.12	Feasible	(P)	3600	5355.7	0.068989	6171.9	0.030417	2000	2469	4500	279491
p-n=250-e=2000-q=200-d=0.25.12	Feasible	(STM)	3600.1	5337.6	0.47393	6150.1	0.057242	2000	4219	8250	51632
p-n=250-e=2000-q=200-d=0.25.13	Feasible	(U)	3600.1	5558.3	0.021997	6376.7	0.012636	2000	2471	4500	40922
p-n=250-e=2000-q=200-d=0.25.13	Feasible	(I)	3600	5558.3	0.43293	5997.2	0.0098893	2000	4221	8250	33502
p-n=250-e=2000-q=200-d=0.25.13	Feasible	(L)	3600	5558.3	0.26796	5997.2	0.0083576	2000	4221	6250	103997
p-n=250-e=2000-q=200-d=0.25.13	Feasible	(P)	3600	5558.3	0.078988	6341.5	0.025435	2000	2471	4500	213678
p-n=250-e=2000-q=200-d=0.25.13	Feasible	(STM)	3600.1	5548.8	0.48593	6329.6	0.057457	2000	4221	8250	47451
p-n=250-e=2000-q=200-d=0.25.14	Feasible	(U)	3600	5285.5	0.014997	6017.8	0.01483	2000	2477	4500	68101
p-n=250-e=2000-q=200-d=0.25.14	Feasible	(I)	3600	5284.6	0.29396	5719.9	0.01213	2000	4227	8250	84691
p-n=250-e=2000-q=200-d=0.25.14	Feasible	(L)	3600	5285.5	0.10099	5719.9	0.011714	2000	4227	6250	198708
p-n=250-e=2000-q=200-d=0.25.14	Feasible	(P)	3600	5284.6	0.033995	5983.5	0.022709	2000	2477	4500	557491
p-n=250-e=2000-q=200-d=0.25.14	Feasible	(STM)	3600	5274.2	0.26696	5996.1	0.048512	2000	4227	8250	79871
p-n=250-e=2000-q=200-d=0.25.15	Feasible	(U)	3600	5276.6	0.030995	6175.8	0.014867	2000	2472	4500	39723
p-n=250-e=2000-q=200-d=0.25.15	Feasible	(I)	3600.1	5276.6	0.41294	5831.5	0.015803	2000	4222	8250	45731
p-n=250-e=2000-q=200-d=0.25.15	Feasible	(L)	3600	5276.6	0.28396	5831.5	0.017524	2000	4222	6250	45922
p-n=250-e=2000-q=200-d=0.25.15	Feasible	(P)	3600	5276.6	0.078988	6133.8	0.035862	2000	2472	4500	480351
p-n=250-e=2000-q=200-d=0.25.15	Feasible	(STM)	3600.1	5276.6	0.43593	6177.9	0.07035	2000	4222	8250	41021

All Instances - Part 7											
filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=250-e=2000-q=200-d=0.25.16	Feasible	(U)	3600	5388.5	0.024997	6187.9	0.011301	2000	2473	4500	45174
p-n=250-e=2000-q=200-d=0.25.16	Feasible	(I)	3600.1	5388.5	0.41794	5844	0.0079089	2000	4223	8250	52004
p-n=250-e=2000-q=200-d=0.25.16	Feasible	(L)	3600	5388.5	0.14398	5844	0.0056578	2000	4223	6250	99906
p-n=250-e=2000-q=200-d=0.25.16	Feasible	(P)	3600	5388.5	0.068989	6150.8	0.024902	2000	2473	4500	442321
p-n=250-e=2000-q=200-d=0.25.16	Feasible	(STM)	3600.1	5388.5	0.46793	6147.4	0.051292	2000	4223	8250	36411
p-n=250-e=2000-q=200-d=0.25.17	Feasible	(U)	3600	5239.8	0.027996	6137	0.015029	2000	2474	4500	39741
p-n=250-e=2000-q=200-d=0.25.17	Feasible	(I)	3600.1	5239.8	0.55692	5743.6	0.013096	2000	4224	8250	55471
p-n=250-e=2000-q=200-d=0.25.17	Feasible	(L)	3600	5239.8	0.31995	5743.6	0.010666	2000	4224	6250	74041
p-n=250-e=2000-q=200-d=0.25.17	Feasible	(P)	3600	5239.8	0.074989	6097.3	0.032783	2000	2474	4500	415561
p-n=250-e=2000-q=200-d=0.25.17	Feasible	(STM)	3600	5214.7	0.43693	6086.2	0.067902	2000	4224	8250	49111
p-n=250-e=2000-q=200-d=0.25.18	Feasible	(U)	3600	5348.8	0.025996	6125.9	0.0096873	2000	2471	4500	33253
p-n=250-e=2000-q=200-d=0.25.18	Feasible	(I)	3600.1	5348.8	0.59891	5763	0.0067616	2000	4221	8250	48325
p-n=250-e=2000-q=200-d=0.25.18	Feasible	(L)	3600	5348.8	0.18497	5763	0.0038499	2000	4221	6250	111015
p-n=250-e=2000-q=200-d=0.25.18	Feasible	(P)	3600	5348.8	0.053992	6093.4	0.019737	2000	2471	4500	388101
p-n=250-e=2000-q=200-d=0.25.18	Feasible	(STM)	3600.1	5348.8	0.48393	6103.1	0.05303	2000	4221	8250	48762
p-n=250-e=2000-q=200-d=0.25.19	Feasible	(U)	3600	5314.5	0.019997	6119.1	0.0094924	2000	2470	4500	47901
p-n=250-e=2000-q=200-d=0.25.19	Feasible	(I)	3600.1	5314.5	0.48693	5764	0.010211	2000	4220	8250	53701
p-n=250-e=2000-q=200-d=0.25.19	Feasible	(L)	3600	5314.5	0.25896	5764	0.0066198	2000	4220	6250	100592
p-n=250-e=2000-q=200-d=0.25.19	Feasible	(P)	3600	5314.5	0.06799	6085.1	0.024761	2000	2470	4500	403451
p-n=250-e=2000-q=200-d=0.25.19	Feasible	(STM)	3600.1	5304.1	0.46893	6079.1	0.059176	2000	4220	8250	52561
p-n=300-e=2400-q=200-d=0.25.0	Feasible	(U)	3600	6068.6	0.029995	7150.2	0.034739	2400	2957	5400	34891
p-n=300-e=2400-q=200-d=0.25.0	Feasible	(I)	3600.1	6062.5	0.81288	6747.6	0.031922	2400	5057	9900	24067
p-n=300-e=2400-q=200-d=0.25.0	Feasible	(L)	3600.1	6066.7	0.38994	6747.6	0.028752	2400	5057	7500	45671
p-n=300-e=2400-q=200-d=0.25.0	Feasible	(P)	3600	6068.6	0.079988	7110.2	0.050452	2400	2957	5400	314291
p-n=300-e=2400-q=200-d=0.25.0	Feasible	(STM)	3600	6054.8	0.6299	7104.5	0.090737	2400	5057	9900	29024
p-n=300-e=2400-q=200-d=0.25.1	Feasible	(U)	3600	6509.1	0.038994	7691.3	0.025575	2400	2960	5400	36441
p-n=300-e=2400-q=200-d=0.25.1	Feasible	(I)	3600	6509	0.40294	7266.6	0.022743	2400	5060	9900	42365
p-n=300-e=2400-q=200-d=0.25.1	Feasible	(L)	3600.1	6508.2	0.29696	7266.6	0.02151	2400	5060	7500	76471
p-n=300-e=2400-q=200-d=0.25.1	Feasible	(P)	3600	6508.1	0.091986	7640.6	0.039506	2400	2960	5400	291721
p-n=300-e=2400-q=200-d=0.25.1	Feasible	(STM)	3600.2	6500.3	0.49193	7633.3	0.077509	2400	5060	9900	40601
p-n=300-e=2400-q=200-d=0.25.2	Feasible	(U)	3600	6467.9	0.032995	7468.3	0.020109	2400	2954	5400	30490
p-n=300-e=2400-q=200-d=0.25.2	Feasible	(I)	3600	6467.9	0.46893	7035.3	0.0177	2400	5054	9900	34620
p-n=300-e=2400-q=200-d=0.25.2	Feasible	(L)	3600.1	6467.9	0.24296	7035.3	0.018572	2400	5054	7500	46020
p-n=300-e=2400-q=200-d=0.25.2	Feasible	(P)	3600.1	6467.9	0.060991	7418.4	0.033792	2400	2954	5400	238193
p-n=300-e=2400-q=200-d=0.25.2	Feasible	(STM)	3600.1	6463.2	0.38794	7385.5	0.061766	2400	5054	9900	38301
p-n=300-e=2400-q=200-d=0.25.3	Feasible	(U)	3600	6458.3	0.034994	7514.1	0.020167	2400	2963	5400	34556
p-n=300-e=2400-q=200-d=0.25.3	Feasible	(I)	3600.1	6458.3	0.53992	7114.7	0.021156	2400	5063	9900	29661
p-n=300-e=2400-q=200-d=0.25.3	Feasible	(L)	3600	6458.3	0.32595	7114.7	0.018625	2400	5063	7500	65451
p-n=300-e=2400-q=200-d=0.25.3	Feasible	(P)	3600	6458.3	0.097986	7468.6	0.035994	2400	2963	5400	289181
p-n=300-e=2400-q=200-d=0.25.3	Feasible	(STM)	3600.1	6457.7	0.56691	7468	0.06728	2400	5063	9900	43451
p-n=300-e=2400-q=200-d=0.25.4	Feasible	(U)	3600.1	6403	0.040993	7379.3	0.02254	2400	2959	5400	33061
p-n=300-e=2400-q=200-d=0.25.4	Feasible	(I)	3600.1	6405.6	0.52492	7053	0.019333	2400	5059	9900	34925
p-n=300-e=2400-q=200-d=0.25.4	Feasible	(L)	3600	6405.6	0.23396	7053	0.015432	2400	5059	7500	44825
p-n=300-e=2400-q=200-d=0.25.4	Feasible	(P)	3600	6405.6	0.11698	7348.8	0.039525	2400	2959	5400	235295
p-n=300-e=2400-q=200-d=0.25.4	Feasible	(STM)	3600.1	6399.9	0.54192	7360.9	0.069034	2400	5059	9900	35031
p-n=300-e=2400-q=200-d=0.25.5	Feasible	(U)	3600.1	6440.4	0.029996	7356.3	0.01383	2400	2966	5400	39158
p-n=300-e=2400-q=200-d=0.25.5	Feasible	(I)	3600	6440.4	0.55292	6955	0.011754	2400	5066	9900	44777
p-n=300-e=2400-q=200-d=0.25.5	Feasible	(L)	3600	6440.4	0.23796	6955	0.010338	2400	5066	7500	64862
p-n=300-e=2400-q=200-d=0.25.5	Feasible	(P)	3600.1	6440.4	0.085987	7311.9	0.026465	2400	2966	5400	269602
p-n=300-e=2400-q=200-d=0.25.5	Feasible	(STM)	3600.1	6432.3	0.6609	7289.7	0.053288	2400	5066	9900	30711
p-n=300-e=2400-q=200-d=0.25.6	Feasible	(U)	3600	6395.6	0.036994	7455.1	0.027634	2400	2955	5400	36309
p-n=300-e=2400-q=200-d=0.25.6	Feasible	(I)	3600	6400	0.6599	7006.3	0.025593	2400	5055	9900	40807
p-n=300-e=2400-q=200-d=0.25.6	Feasible	(L)	3600.1	6400	0.31095	7006.3	0.025685	2400	5055	7500	41921
p-n=300-e=2400-q=200-d=0.25.6	Feasible	(P)	3600.1	6400	0.10798	7417.8	0.048409	2400	2955	5400	233421
p-n=300-e=2400-q=200-d=0.25.6	Feasible	(STM)	3600	6367.2	0.61191	7374.3	0.081116	2400	5055	9900	36005
p-n=300-e=2400-q=200-d=0.25.7	Feasible	(U)	3600	6240.2	0.029995	7261.5	0.023023	2400	2961	5400	36697
p-n=300-e=2400-q=200-d=0.25.7	Feasible	(I)	3600.1	6241.4	0.6459	6862.9	0.023155	2400	5061	9900	29601
p-n=300-e=2400-q=200-d=0.25.7	Feasible	(L)	3600.1	6241.4	0.29795	6862.9	0.023663	2400	5061	7500	41681
p-n=300-e=2400-q=200-d=0.25.7	Feasible	(P)	3600.1	6241.4	0.097985	7221.8	0.040041	2400	2961	5400	343301
p-n=300-e=2400-q=200-d=0.25.7	Feasible	(STM)	3600	6234.1	0.53592	7233.6	0.071681	2400	5061	9900	43523
p-n=300-e=2400-q=200-d=0.25.8	Feasible	(U)	3600	6232.7	0.045993	7261.2	0.0251	2400	2968	5400	38921
p-n=300-e=2400-q=200-d=0.25.8	Feasible	(I)	3600.1	6232.1	0.72989	6856.4	0.025966	2400	5068	9900	32481
p-n=300-e=2400-q=200-d=0.25.8	Feasible	(L)	3600	6232.7	0.20997	6856.4	0.023607	2400	5068	7500	89881
p-n=300-e=2400-q=200-d=0.25.8	Feasible	(P)	3600.1	6232.7	0.12698	7221	0.04256	2400	2968	5400	241371
p-n=300-e=2400-q=200-d=0.25.8	Feasible	(STM)	3600.1	6220	0.54092	7219.4	0.068218	2400	5068	9900	46501
p-n=300-e=2400-q=200-d=0.25.9	Feasible	(U)	3600	6394.6	0.029996	7335.2	0.01778	2400	2972	5400	43381
p-n=300-e=2400-q=200-d=0.25.9	Feasible	(I)	3600.1	6394.6	0.57991	6961.8	0.014078	2400	5072	9900	41011
p-n=300-e=2400-q=200-d=0.25.9	Feasible	(L)	3600	6394.6	0.28396	6961.8	0.012018	2400	5072	7500	63754
p-n=300-e=2400-q=200-d=0.25.9	Feasible	(P)	3600	6394.6	0.077988	7292	0.028085	2400	2972	5400	336376
p-n=300-e=2400-q=200-d=0.25.9	Feasible	(STM)	3600.1	6393	0.60891	7274.8	0.054593	2400	5072	9900	43483
p-n=300-e=2400-q=200-d=0.25.10	Feasible	(U)	3600	6862.2	0.029995	7760.4	0.013331	2400	2966	5400	53022
p-n=300-e=2400-q=200-d=0.25.10	Feasible	(I)	3600	6862.2	0.6469	7328.4	0.012062	2400	5066	9900	35296
p-n=300-e=2400-q=200-d=0.25.10	Feasible	(L)	3600.1	6862.2	0.30195	7328.4	0.010729	2400	5066	7500	65678
p-n=300-e=2400-q=200-d=0.25.10	Feasible	(P)	3600	6862.2	0.081988	7703.7	0.026164	2400	2966	5400	310721
p-n=300-e=2400-q=200-d=0.25.10	Feasible	(STM)	3600.1	6858.4	0.57191	7708.6	0.042441	2400	5066	9900	40177
p-n=300-e=2400-q=200-d=0.25.11	Feasible	(U)	3600	6366.5	0.036994	7414.6	0.025319	2400	2959	5400	38246
p-n=300-e=2400-q=200-d=0.25.11	Feasible	(I)	3600.1	6366.5	0.74289	6997.5	0.02494	2400	5059	9900	24063
p-n=300-e=2400-q=200-d=0.25.11	Feasible	(L)	3600.1	6366.1	0.35695	6997.5	0.022876	2400	5059	7500	56301
p-n=300-e=2400-q=200-d=0.25.11	Feasible	(P)	3600.1	6366.5	0.083987	7376	0.0393	2400	2959	5400	239795
p-n=300-e=2400-q=200-d=0.25.11	Feasible	(STM)	3600.1	6366	0.54092	7392.8	0.067572	2400	5059	9900	41591

group	formulation	optimal	feasible	Table with Means and Standard		Deviations - All Instances						
				time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap-improvement
p-n=50-e=400-q=200-d=0.25	(U)	20	0	2.687	2.0333	0.0026997	0.00071393	590.5	349.84	4.6138e-05	3.5517e-05	0.13194
p-n=50-e=400-q=200-d=0.25	(I)	20	0	5.2338	2.1977	0.041544	0.0078311	634.6	186.06	3.0721e-05	3.3062e-05	0.063234
p-n=50-e=400-q=200-d=0.25	(L)	20	0	3.427	1.428	0.021497	0.0038399	667.7	194.61	3.0695e-05	3.5334e-05	0.063234
p-n=50-e=400-q=200-d=0.25	(P)	20	0	2.8201	1.3897	0.007049	0.001071	1193	696.82	5.3228e-05	3.6246e-05	0.12333
p-n=50-e=400-q=200-d=0.25	(STM)	20	0	154.87	137.41	0.076788	0.011603	29231	32279	9.6067e-05	5.984e-06	0.12369
p-n=100-e=800-q=200-d=0.25	(U)	20	0	135.83	237.92	0.006749	0.0011345	11557	17477	9.1234e-05	1.1793e-05	0.14244
p-n=100-e=800-q=200-d=0.25	(I)	20	0	241.1	549.31	0.12043	0.025664	20918	48786	9.3693e-05	7.4764e-06	0.075099
p-n=100-e=800-q=200-d=0.25	(L)	20	0	159.08	355.12	0.056891	0.01273	21257	46207	9.3886e-05	1.079e-05	0.075099
p-n=100-e=800-q=200-d=0.25	(P)	19	1	457.01	900.78	0.018847	0.0031503	1.8169e+05	3.6754e+05	0.000321	0.00096732	0.13605
p-n=100-e=800-q=200-d=0.25	(STM)	3	17	3208.7	941.67	0.24306	0.067549	1.8318e+05	53484	0.024546	0.016337	0.10617
p-n=150-e=1200-q=200-d=0.25	(U)	14	6	1593.8	1447.9	0.011398	0.0012803	59394	47133	0.0022856	0.0038849	0.15237
p-n=150-e=1200-q=200-d=0.25	(I)	14	6	1602.2	1408.7	0.22412	0.042958	63755	51891	0.0019984	0.0031843	0.08603
p-n=150-e=1200-q=200-d=0.25	(L)	14	6	1599.5	1518.5	0.10218	0.013431	1.4071e+05	1.3205e+05	0.0019178	0.0033899	0.08612
p-n=150-e=1200-q=200-d=0.25	(P)	7	13	2821.1	1155.2	0.033895	0.0046241	6.7861e+05	2.7626e+05	0.01016	0.0098134	0.13674
p-n=150-e=1200-q=200-d=0.25	(STM)	0	20	3600	0.025377	0.41464	0.10025	1.1757e+05	19668	0.044678	0.015071	0.098685
p-n=200-e=1600-q=200-d=0.25	(U)	4	16	3196.9	917.62	0.018697	0.0041836	59266	19470	0.0078968	0.0057638	0.14443
p-n=200-e=1600-q=200-d=0.25	(I)	5	15	3136.5	913.44	0.36324	0.099485	72103	22259	0.005995	0.005009	0.080849
p-n=200-e=1600-q=200-d=0.25	(L)	7	13	2854.5	1178.5	0.17017	0.03772	1.2111e+05	57123	0.005442	0.0053618	0.081435
p-n=200-e=1600-q=200-d=0.25	(P)	0	20	3600	0.016583	0.045393	0.00989	5.4701e+05	1.08e+05	0.020058	0.0085813	0.12426
p-n=200-e=1600-q=200-d=0.25	(STM)	0	20	3600.1	0.031918	0.73964	0.23134	76246	21517	0.05011	0.012974	0.093351
p-n=250-e=2000-q=200-d=0.25	(U)	0	20	3600	0.019046	0.024196	0.0042491	45108	10303	0.014595	0.0048502	0.141
p-n=250-e=2000-q=200-d=0.25	(I)	0	20	3600.1	0.021512	0.47703	0.08519	51020	15616	0.013075	0.0054661	0.078619
p-n=250-e=2000-q=200-d=0.25	(L)	0	20	3600	0.021089	0.24231	0.067887	98793	39564	0.011989	0.0054008	0.079727
p-n=250-e=2000-q=200-d=0.25	(P)	0	20	3600	0.016086	0.06559	0.014383	3.853e+05	83330	0.029744	0.0068709	0.11777
p-n=250-e=2000-q=200-d=0.25	(STM)	0	20	3600.1	0.032936	0.43313	0.07126	52276	9862	0.061102	0.0093015	0.087201
p-n=300-e=2400-q=200-d=0.25	(U)	0	20	3600	0.023125	0.033145	0.0052648	38431	6113.3	0.020039	0.0068283	0.13471
p-n=300-e=2400-q=200-d=0.25	(I)	0	20	3600.1	0.035903	0.63295	0.10474	35690	10040	0.018587	0.0074876	0.073613
p-n=300-e=2400-q=200-d=0.25	(L)	0	20	3600.1	0.019615	0.29785	0.04819	60948	15510	0.016836	0.0070785	0.075436
p-n=300-e=2400-q=200-d=0.25	(P)	0	20	3600	0.021	0.092986	0.017544	2.8318e+05	49864	0.035451	0.0086391	0.1115
p-n=300-e=2400-q=200-d=0.25	(STM)	0	20	3600.1	0.035355	0.57911	0.075636	39192	5549.3	0.064629	0.013151	0.082057

Table with Means and Standard Deviations - Only solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
p-n=50-e=400-q=200-d=0.25	(U)	20	0	2.687	2.0333	0.0026997	0.00071393	590.5	349.84	4.6138e-05	3.5517e-05	0.13194
p-n=50-e=400-q=200-d=0.25	(I)	20	0	5.2338	2.1977	0.041544	0.0078311	634.6	186.06	3.0721e-05	3.3062e-05	0.063234
p-n=50-e=400-q=200-d=0.25	(L)	20	0	3.427	1.428	0.021497	0.0038399	667.7	194.61	3.0695e-05	3.5334e-05	0.063234
p-n=50-e=400-q=200-d=0.25	(P)	20	0	2.8201	1.3897	0.007049	0.001071	1193	696.82	5.3228e-05	3.6246e-05	0.12333
p-n=50-e=400-q=200-d=0.25	(STM)	20	0	154.87	137.41	0.076788	0.011603	29231	32279	9.6067e-05	5.984e-06	0.12369
p-n=100-e=800-q=200-d=0.25	(U)	20	0	135.83	237.92	0.006749	0.0011345	11557	17477	9.1234e-05	1.1793e-05	0.14244
p-n=100-e=800-q=200-d=0.25	(I)	20	0	241.1	549.31	0.12043	0.025664	20918	48786	9.3693e-05	7.4764e-06	0.075099
p-n=100-e=800-q=200-d=0.25	(L)	20	0	159.08	355.12	0.056891	0.01273	21257	46207	9.3886e-05	1.079e-05	0.075099
p-n=100-e=800-q=200-d=0.25	(P)	19	0	291.59	553.92	0.018997	0.0031618	1.1477e+05	2.2943e+05	9.9079e-05	1.6361e-06	0.13381
p-n=100-e=800-q=200-d=0.25	(STM)	3	0	990.96	354.13	0.21163	0.019186	92531	29825	9.9784e-05	2.383e-07	0.10657
p-n=150-e=1200-q=200-d=0.25	(U)	14	0	734.06	728.43	0.011284	0.0012203	38943	38699	9.8843e-05	1.3226e-06	0.14664
p-n=150-e=1200-q=200-d=0.25	(I)	14	0	746	625.38	0.21525	0.04545	35882	29481	9.9556e-05	4.1919e-07	0.082315
p-n=150-e=1200-q=200-d=0.25	(L)	14	0	742.13	918.48	0.098985	0.01321	76368	99739	9.9623e-05	5.47e-07	0.083104
p-n=150-e=1200-q=200-d=0.25	(P)	7	0	1374.4	769.97	0.034852	0.0051932	3.6361e+05	1.7558e+05	8.5668e-05	3.4974e-05	0.12992
p-n=200-e=1600-q=200-d=0.25	(U)	4	0	1584.2	979.5	0.020997	0.0053377	58528	35893	9.9649e-05	3.9293e-07	0.13967
p-n=200-e=1600-q=200-d=0.25	(I)	5	0	1745.9	871.27	0.36734	0.059937	50447	24162	9.9845e-05	1.7243e-07	0.07254
p-n=200-e=1600-q=200-d=0.25	(L)	7	0	1469.8	1009.3	0.16012	0.020396	82951	67227	9.9814e-05	1.3908e-07	0.074023

Table with Means and Standard Deviations - Only not solved within the time limit												
group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
p-n=100-e=800-q=200-d=0.25	(P)	0	1	3600	0	0.015998	0	1.4531e+06	0	0.0045375	0	0.17857
p-n=100-e=800-q=200-d=0.25	(STM)	0	17	3600	0.022873	0.24861	0.071401	1.9917e+05	38762	0.028859	0.013781	0.1061
p-n=150-e=1200-q=200-d=0.25	(U)	0	6	3600	0.0089753	0.011665	0.001374	1.0711e+05	25641	0.007388	0.0036216	0.16573
p-n=150-e=1200-q=200-d=0.25	(I)	0	6	3600.1	0.042687	0.2448	0.026838	1.2879e+05	30086	0.006429	0.0023991	0.094698
p-n=150-e=1200-q=200-d=0.25	(L)	0	6	3600	0.022669	0.10965	0.010701	2.9085e+05	52074	0.0061603	0.0035485	0.093157
p-n=150-e=1200-q=200-d=0.25	(P)	0	13	3600	0.014595	0.03338	0.0041971	8.4822e+05	1.3645e+05	0.015585	0.0080052	0.14041
p-n=150-e=1200-q=200-d=0.25	(STM)	0	20	3600	0.025377	0.41464	0.10025	1.1757e+05	19668	0.044678	0.015071	0.098685
p-n=200-e=1600-q=200-d=0.25	(U)	0	16	3600	0.019325	0.018122	0.0036199	59451	12312	0.0098461	0.0047464	0.14562
p-n=200-e=1600-q=200-d=0.25	(I)	0	15	3600	0.015434	0.36188	0.10951	79322	16049	0.00796	0.0042436	0.083619
p-n=200-e=1600-q=200-d=0.25	(L)	0	13	3600	0.027022	0.17559	0.043373	1.4165e+05	37156	0.0083185	0.0045373	0.085427
p-n=200-e=1600-q=200-d=0.25	(P)	0	20	3600	0.016583	0.045393	0.00989	5.4701e+05	1.08e+05	0.020058	0.0085813	0.12426
p-n=200-e=1600-q=200-d=0.25	(STM)	0	20	3600.1	0.031918	0.73964	0.23134	76246	21517	0.05011	0.012974	0.093351
p-n=250-e=2000-q=200-d=0.25	(U)	0	20	3600	0.019046	0.024196	0.0042491	45108	10303	0.014595	0.0048502	0.141
p-n=250-e=2000-q=200-d=0.25	(I)	0	20	3600.1	0.021512	0.47703	0.08519	51020	15616	0.013075	0.0054661	0.078619
p-n=250-e=2000-q=200-d=0.25	(L)	0	20	3600	0.021089	0.24231	0.067887	98793	39564	0.011989	0.0054008	0.079727
p-n=250-e=2000-q=200-d=0.25	(P)	0	20	3600	0.016086	0.06559	0.014383	3.853e+05	83330	0.029744	0.0068709	0.11777
p-n=250-e=2000-q=200-d=0.25	(STM)	0	20	3600.1	0.032936	0.43313	0.07126	52276	9862	0.061102	0.0093015	0.087201
p-n=300-e=2400-q=200-d=0.25	(U)	0	20	3600	0.023125	0.033145	0.0052648	38431	6113.3	0.020039	0.0068283	0.13471
p-n=300-e=2400-q=200-d=0.25	(I)	0	20	3600.1	0.035903	0.63295	0.10474	35690	10040	0.018587	0.0074876	0.073613
p-n=300-e=2400-q=200-d=0.25	(L)	0	20	3600.1	0.019615	0.29785	0.04819	60948	15510	0.016836	0.0070785	0.075436
p-n=300-e=2400-q=200-d=0.25	(P)	0	20	3600	0.021	0.092986	0.017544	2.8318e+05	49864	0.035451	0.0086391	0.1115
p-n=300-e=2400-q=200-d=0.25	(STM)	0	20	3600.1	0.035355	0.57911	0.075636	39192	5549.3	0.064629	0.013151	0.082057