1 Characteristics Model

All Instances - Part 1

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600	41519	0.13398	46182	0.010933	3938	4939	8876	54076
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.1	41519	1.5468	43634	0.0098772	3938	8377	16252	16508
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.1	41519	0.71289	43634	0.0092881	3938	8377	12314	33022
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.1	41519	0.28296	45732	0.018106	3938	4939	8876	166143
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.2	41382	1.9407	45992	0.033116	3938	8377	16252	11701
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.1	43103	0.10798	48023	0.016846	4016	5017	9032	63235
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.2	43098	2.1167	45353	0.013779	4016	8533	16564	13630
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.2	43099	0.87887	45353	0.013265	4016	8533	12548	18081
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.2	43077	0.31095	47741	0.025154	4016	5017	9032	89495
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.2	42867	2.2887	47641	0.04278	4016	8533	16564	7841
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.2	40740	0.14298	45614	0.015507	3862	4863	8724	40581
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600.1	40731	1.8217	42905	0.012919	3862	8225	15948	15321
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.1	40744	0.98885	42905	0.011786	3862	8225	12086	39417
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.1	40744	0.28696	45193	0.021396	3862	4863	8724	101209
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.3	40661	3.7624	45151	0.0349	3862	8225	15948	11041
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600.1	41684	0.10199	46460	0.012334	3981	4982	8962	60230
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.1	41673	1.6687	43858	0.011429	3981	8463	16424	16240
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3600.2	41688	1.3328	43858	0.010751	3981	8463	12443	19131
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.1	41659	0.47093	46104	0.020903	3981	4982	8962	96281
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.2	41628	1.9487	46101	0.031707	3981	8463	16424	14031
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.2	43650	0.12998	48327	0.010531	3905	4906	8810	67451
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600.2	43650	2.0857	45672	0.0083027	3905	8311	16120	20211
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.2	43650	1.3038	45672	0.0076479	3905	8311	12215	23272
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.1	43628	0.39194	48016	0.019417	3905	4906	8810	106672
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.3	43481	2.6856	48021	0.031055	3905	8311	16120	10201
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.1	41253	0.15398	46171	0.015631	3973	4974	8946	91780
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.2	41250	1.8487	43525	0.013913	3973	8447	16392	11552
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.1	41252	0.93986	43525	0.012524	3973	8447	12419	31911
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.1	41229	0.19597	45801	0.024924	3973	4974	8946	84101
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.2	41017	2.5466	45966	0.041989	3973	8447	16392	14400
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.1	44144	0.14998	48916	0.013681	4064	5065	9128	70581
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.2	44150	2.5966	46187	0.011531	4064	8629	16756	13661
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.1	44143	1.6078	46187	0.010946	4064	8629	12692	36441
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600.1	44139	0.35895	48606	0.020689	4064	5065	9128	89291
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.3	43888	3.1715	48534	0.036855	4064	8629	16756	8041
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.1	42289	0.094986	46958	0.012517	4021	5022	9042	59641
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.2	42295	1.5338	44344	0.010047	4021	8543	16584	14293
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.1	42286	0.70589	44344	0.010504	4021	8543	12563	18219
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.1	42291	0.33595	46618	0.020981	4021	5022	9042	84220
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.1	42239	1.6867	46611	0.030972	4021	8543	16584	17793
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.1	44326	0.12298	49287	0.012933	4039	5040	9078	63379
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.2	44326	2.7836	46583	0.011175	4039	8579	16656	12353
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.2	44321	1.3388	46583	0.0099536	4039	8579	12617	16071
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.1	44321	0.34295	48945	0.021719	4039	5040	9078	156884
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.5	44290	4.3663	49004	0.035708	4039	8579	16656	11221
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.1	43008	0.10698	47993	0.017136	4053	5054	9106	40691
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600.1	43007	2.2847	45347	0.014818	4053	8607	16712	10630
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.2	43007	0.82687	45347	0.014502	4053	8607	12659	18891
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.1	42947	0.39294	47692	0.02795	4053	5054	9106	85311
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600.1	42797	3.7574	47682	0.042041	4053	8607	16712	9082
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.1	44434	0.12498	49137	0.0096196	3890	4891	8780	35388
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.1	44444	1.2978	46384	0.0087901	3890	8281	16060	18702
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600.1	44440	1.2568	46384	0.0083997	3890	8281	12170	29801
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.1	44431	0.25696	48752	0.015584	3890	4891	8780	146860
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.1	44392	1.7057	48884	0.027224	3890	8281	16060	15071
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.2	42789	0.13498	47700	0.013331	4000	5001	9000	33102
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.1	42796	1.7987	44858	0.010725	4000	8501	16500	12161
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600.1	42796	1.0758	44858	0.010483	4000	8501	12500	14991
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.1	42801	0.31495	47372	0.022318	4000	5001	9000	97829
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600.3	42684	2.6086	47311	0.035743	4000	8501	16500	8481
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600.2	43522	0.15798	48445	0.013929	3871	4872	8742	46791
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.3	43532	2.2467	45613	0.011664	3871	8243	15984	11011
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.1	43532	0.73589	45613	0.010449	3871	8243	12113	18232
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600.1	43522	0.34795	48127	0.022011	3871	4872	8742	117631
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.3	43462	3.3505	48055	0.033335	3871	8243	15984	25431
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600.1	41813	0.14298	46637	0.011525	3970	4971	8940	47023
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.3	41814	2.8726	43982	0.010167	3970	8441	16380	12722
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600.1	41813	1.3548	43982	0.008516	3970	8441	12410	19248
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600.2	41811	0.46193	46265	0.020347	3970	4971	8940	121361
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600.2	41696	1.4318	46374	0.032832	3970	8441	16380	8811
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600.2	43482	0.16897	48438	0.016844	4081	5082	9162	41221
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3600.1	43473	2.2037	45688	0.014805	4081	8663	16824	9905
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600	43498	0.6359	45688	0.013082	4081	8663	12743	25113
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.1	43465	0.42694	48096	0.025329	4081	5082	9162	94251
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.2	43411	2.9176	47932	0.036972	4081	8663	16824	14211
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600.1	42891	0.076988	47699	0.013288	4034	5035	9068	57391
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600	42894	1.3308	45019	0.011191	4034	8569	16636	12219
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600.1	42894	0.97285	45019	0.01084	4034	8569	12602	31931
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600.1	42901	0.23596	47389	0.02206	4034	5035	9068	93121
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600.3	42781	2.5646	47254	0.033238	4034	8569	16636	9931

All Instances - Part 2

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600.1	41616	0.10698	46836	0.013079	3843	4843	8686	62441
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600.2	41597	1.7127	43853	0.010478	3843	8186	15872	17629
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3600.1	41616	1.3028	43853	0.010558	3843	8186	12029	37451
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600	41601	0.39294	46412	0.022826	3843	4843	8686	82823
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600.2	41347	2.5286	46413	0.04103	3843	8186	15872	8161
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600.1	41538	0.10898	46601	0.016953	3923	4924	8846	43601
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3600.4	41560	2.5676	43853	0.013853	3923	8347	16192	11025
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600.2	41566	1.2208	43853	0.013246	3923	8347	12269	28761
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600	41543	0.37894	46274	0.027122	3923	4924	8846	76748
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600.2	41431	3.2825	46213	0.042418	3923	8347	16192	7389
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600	43450	0.12898	48324	0.010919	4058	5059	9116	56680
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.1	43450	1.6678	45567	0.0087548	4058	8617	16732	15900
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3600.1	43450	0.93486	45567	0.0083972	4058	8617	12674	21076
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.2	43450	0.32595	48009	0.019139	4058	5059	9116	96651
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.2	43279	3.1005	47962	0.035233	4058	8617	16732	11141
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600.2	42805	0.16298	48074	0.011843	3921	4922	8842	40267
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600.2	42801	1.1478	45082	0.010467	3921	8343	16184	16125
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.1	42798	1.1528	45082	0.008883	3921	8343	12263	25871
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600.1	42766	0.27096	47625	0.021753	3921	4922	8842	142580
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600.3	42526	2.7776	47802	0.040569	3921	8343	16184	12451
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.3	85120	0.31895	94206	0.012405	7256	9257	16512	17602
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.5	85118	4.3123	88842	0.010243	7256	15513	30024	8778
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.1	85138	2.8506	88842	0.0094974	7256	15513	22768	9210
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.3	85050	0.6829	93480	0.022249	7256	9257	16512	40800
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.8	84647	4.3173	93530	0.03425	7256	15513	30024	4778
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.3	83649	0.43493	92886	0.013547	7193	9192	16386	28381
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.7	83609	4.6363	87606	0.010949	7193	15385	29772	5821
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.3	83650	2.8786	87606	0.010057	7193	15385	22579	9010
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.3	83596	0.81288	92092	0.022548	7193	9192	16386	55084
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.8	82493	7.1939	92305	0.043673	7193	15385	29772	5203
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.3	83791	0.49293	93395	0.016107	7230	9231	16460	18769
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600.9	83720	7.4089	88099	0.014421	7230	15461	29920	5557
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.2	83819	1.6187	88099	0.012736	7230	15461	22690	10367
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.2	83750	0.99785	92669	0.025393	7230	9231	16460	79117
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.6	82487	6.673	92451	0.048666	7230	15461	29920	4757
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600.2	82959	0.38394	92456	0.015921	7144	9144	16288	20343
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.7	82848	6.1091	87033	0.01395	7144	15288	29576	4551
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3600.1	82858	2.2007	87033	0.013268	7144	15288	22432	5962
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.2	82854	0.94286	91582	0.025327	7144	9144	16288	43373
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.4	82606	5.1702	91741	0.035686	7144	15288	29576	6220
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.1	84951	0.29096	94275	0.012576	7105	9106	16210	18503
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600.2	84968	3.9804	88858	0.010378	7105	15211	29420	10802
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.4	84967	3.6025	88858	0.01018	7105	15211	22315	10221
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.2	84955	0.74089	93453	0.021206	7105	9106	16210	66792
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.4	84004	6.0421	93468	0.0389	7105	15211	29420	5302
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.2	84389	0.35395	94172	0.015348	7155	9156	16310	23507
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.6	84375	4.8433	88532	0.012494	7155	15311	29620	6192
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.2	84443	1.4158	88532	0.011329	7155	15311	22465	15931
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.3	84361	0.95586	93306	0.024749	7155	9156	16310	49207
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.7	83236	6.904	93429	0.046907	7155	15311	29620	5792
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.4	83055	0.37194	92328	0.01597	7144	9144	16288	21173
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.7	83057	4.9192	87024	0.011527	7144	15288	29576	7011
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.2	83045	3.5505	87024	0.011888	7144	15288	22432	10225
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600.1	83021	0.77688	91423	0.023807	7144	9144	16288	41873
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.1	82101	8.1038	91738	0.04346	7144	15288	29576	5429
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.1	82785	0.27696	92220	0.014549	7057	9058	16114	38315
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.2	82755	3.3315	86813	0.010973	7057	15115	29228	7950
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.1	82732	1.6438	86813	0.011097	7057	15115	22171	9736
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.1	82741	0.90286	91353	0.022988	7057	9058	16114	42322
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.2	82170	4.6483	91484	0.038041	7057	15115	29228	7124
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.1	84340	0.35095	94115	0.01701	7143	9143	16286	26287
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.7	84041	6.57	88555	0.017109	7143	15286	29572	7314
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.2	84387	3.7194	88555	0.012669	7143	15286	22429	7599
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.2	84222	0.75489	93299	0.026347	7143	9143	16286	51769
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.3	84074	4.6403	93322	0.037244	7143	15286	29572	4114
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.3	82538	0.34395	92082	0.014251	7229	9228	16458	19912
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3600.3	82504	5.9851	86531	0.010749	7229	15457	29916	5319
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.7	82490	3.7134	86531	0.010575	7229	15457	22687	11760
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.3	82433	1.4618	91302	0.023009	7229	9228	16458	67212
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600.3	82128	3.5075	91256	0.035107	7229	15457	29916	7589
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.3	84318	0.42594	93997	0.014985	7169	9170	16338	20909
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.4	84226	4.5103	88486	0.013197	7169	15339	29676	5441
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600.4	84326	2.7836	88486	0.011629	7169	15339	22507	7827
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.1	84265	1.0678	93091	0.024769	7169	9170	16338	45325
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.5	83893	5.8621	93360	0.037205	7169	15339	29676	5436
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.2	82613	0.37794	92019	0.01428	7336	9337	16672	18924
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.1	82509	6.542	86555	0.01181	7336	15673	30344	5673
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600.2	82610	1.4878	86555	0.010368	7336	15673	23008	12812
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.2	82578	0.6389	91220	0.023147	7336	9337	16672	65225
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600.6	82324	5.1862	91300	0.034517	7336	15673	30344	5428

All Instances - Part 3

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600.4	85703	0.46193	95512	0.015101	7100	9101	16200	20279
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.1	85673	6.722	90002	0.011911	7100	15201	29400	5717
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.4	85678	3.0415	90002	0.011857	7100	15201	22300	9892
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600.2	85658	0.72489	94742	0.024107	7100	9101	16200	62877
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.7	85298	5.8621	94646	0.037806	7100	15201	29400	5172
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600.1	84046	0.44593	93109	0.013768	6896	8897	15792	29199
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.7	84007	4.4813	87786	0.0099174	6896	14793	28584	11128
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600.4	84048	3.0505	87786	0.0087435	6896	14793	21688	17312
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600.2	84006	0.81788	92232	0.020199	6896	8897	15792	52325
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3600.3	83464	5.3032	92433	0.03323	6896	14793	28584	5967
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600.2	85132	0.23497	94535	0.015534	7299	9299	16598	22093
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3600.2	84905	6.716	89270	0.01615	7299	15598	30196	4713
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600.3	85075	2.8596	89270	0.012822	7299	15598	22897	6736
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.2	85049	0.43693	93790	0.025857	7299	9299	16598	55993
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.2	83909	7.7788	93833	0.047388	7299	15598	30196	4519
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600.2	81985	0.32295	91304	0.014242	7286	9287	16572	21541
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600.5	81935	6.1681	85972	0.012538	7286	15573	30144	5133
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600.2	81952	2.7236	85972	0.012157	7286	15573	22858	8811
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600.2	81936	0.90386	90566	0.024356	7286	9287	16572	65312
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600.4	81544	6.696	90550	0.037008	7286	15573	30144	7083
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600	83670	0.27596	93455	0.014372	7206	9206	16412	30564
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600.9	83515	7.9318	87828	0.013094	7206	15412	29824	6187
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3600.1	83712	2.6956	87828	0.01049	7206	15412	22618	15624
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600.3	83560	0.84187	92483	0.024405	7206	9206	16412	44384
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600.4	83285	6.324	92631	0.035097	7206	15412	29824	6487
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600.3	81753	0.35495	91334	0.016938	7116	9117	16232	20725
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3600.1	81737	5.1172	85759	0.013032	7116	15233	29464	4683
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600.7	81698	3.3655	85759	0.013699	7116	15233	22348	8071
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600.2	81724	0.85887	90481	0.025527	7116	9117	16232	68041
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600.3	81291	4.8983	90579	0.039987	7116	15233	29464	5428
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600.3	84182	0.44493	93646	0.01464	7098	9098	16196	31110
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.1	84127	4.9802	88126	0.012293	7098	15196	29392	9599
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3600.3	84216	2.7496	88126	0.010779	7098	15196	22294	12081
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.1	84171	0.36195	92814	0.021438	7098	9098	16196	107519
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.6	83647	7.5279	92951	0.037167	7098	15196	29392	5399
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600.2	83747	0.24996	93243	0.014617	7021	9021	16042	48040
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600.3	83743	3.9774	87797	0.012192	7021	15042	29084	11953
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.2	83780	2.5846	87797	0.011257	7021	15042	22063	13001
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600.2	83708	0.59591	92458	0.024046	7021	9021	16042	88254
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600.5	82478	6.1011	92490	0.046643	7021	15042	29084	5282
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.3	125133	0.6829	139371	0.01577	10843	13844	24686	13368
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3601	125139	9.2946	131280	0.011875	10843	23187	44872	4615
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.4	125214	5.5872	131280	0.010855	10843	23187	34029	4113
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.2	125048	1.2588	138249	0.026128	10843	13844	24686	45896
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3601	123628	9.4726	138457	0.044772	10843	23187	44872	3415
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.5	126512	0.79388	140622	0.016231	10952	13953	24904	17113
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3601	126449	8.1668	132563	0.012785	10952	23405	45308	3409
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.4	126465	4.2394	132563	0.012344	10952	23405	34356	5517
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.2	126418	2.0557	139418	0.025616	10952	13953	24904	23005
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.4	126077	8.4047	139502	0.03527	10952	23405	45308	4528
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.1	125682	0.29196	139886	0.016227	10660	13661	24320	24357
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3601	125484	7.8958	131755	0.013546	10660	22821	44140	4222
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.4	125627	5.7911	131755	0.011785	10660	22821	33480	3342
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.1	125626	1.5998	138736	0.026095	10660	13661	24320	28073
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3601.1	114199	16.436	138639	0.13616	10660	22821	44140	822
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600.3	124883	0.51392	139060	0.015843	10771	13772	24542	11697
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.9	124778	9.8975	130896	0.012878	10771	23043	44584	2228
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3600.7	124867	5.2312	130896	0.011702	10771	23043	33813	4417
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.3	124907	1.1408	137889	0.024733	10771	13772	24542	49695
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3601.3	124228	10.63	137649	0.035923	10771	23043	44584	3128
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.1	124506	0.76888	138868	0.015822	10968	13968	24936	10202
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600.2	124494	9.0126	130732	0.012593	10968	23436	45372	3292
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.1	124585	6.1781	130732	0.011596	10968	23436	34404	3467
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.5	124487	2.0847	137673	0.025893	10968	13968	24936	27620
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.3	111189	14.586	137638	0.1563	10968	23436	45372	568
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.2	126183	0.49293	140297	0.014316	10762	13761	24524	17066
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.1	125966	13.41	132192	0.013369	10762	23023	44548	2201
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.1	126191	2.5696	132192	0.011102	10762	23023	33786	9351
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.2	126037	2.1677	138940	0.024898	10762	13761	24524	31365
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3601.4	117364	13.796	139096	0.10658	10762	23023	44548	712
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.2	124750	0.54592	138903	0.016132	10643	13644	24286	11477
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3600.1	124736	7.3709	130783	0.012118	10643	22787	44072	3039
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.8	124761	4.6093	130783	0.011606	10643	22787	33429	3997
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600.2	124684	1.2298	137556	0.025389	10643	13644	24286	31360
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.8	113971	14.374	137779	0.13076	10643	22787	44072	800
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.1	126308	0.31295	140692	0.015637	10876	13876	24752	21313
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.8	126035	10.618	132440	0.014245	10876	23252	45004	3797
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.7	126161	6.2611	132440	0.013372	10876	23252	34128	3510
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.4	126119	1.6198	139576	0.027765	10876	13876	24752	28499
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.7	123013	12.534	139529	0.061268	10876	23252	45004	1397

All Instances - Part 4

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.4	127981	0.60791	141785	0.011622	10686	13687	24372	12312
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.2	127876	11.623	133615	0.0098626	10686	22873	44244	3902
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.3	127893	5.3622	133615	0.0092137	10686	22873	33558	4205
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.3	127824	1.5998	140611	0.022549	10686	13687	24372	70810
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.9	126002	13.488	140619	0.043467	10686	22873	44244	3903
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.6	127785	0.71189	142615	0.017339	10988	13989	24976	11886
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3601.2	127836	13.997	134332	0.013307	10988	23477	45452	2412
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.3	127842	4.3044	134332	0.012899	10988	23477	34464	4442
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.3	127687	1.6068	141201	0.028455	10988	13989	24976	27686
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3600.7	117460	12.96	141582	0.12545	10988	23477	45452	910
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.3	122403	0.75689	137078	0.018179	10798	13799	24596	9740
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.4	122100	6.244	128856	0.016192	10798	23097	44692	3315
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600.4	122492	4.5493	128856	0.012761	10798	23097	33894	3717
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.1	122410	1.3088	135937	0.029407	10798	13799	24596	27940
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.3	107773	15.62	135850	0.17695	10798	23097	44692	604
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.5	126760	0.70189	140922	0.01491	10849	13850	24698	13717
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.1	126677	12.319	132875	0.012453	10849	23199	44896	2270
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600.6	126693	5.4222	132875	0.011912	10849	23199	34047	4702
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.4	126598	1.9897	139749	0.025349	10849	13850	24698	32514
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600.5	120538	15.346	139968	0.08445	10849	23199	44896	1211
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600.2	124767	0.47693	139058	0.016103	10717	13715	24434	19307
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.2	124543	11.132	130778	0.01369	10717	22932	44368	2237
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.3	124779	3.2065	130778	0.011666	10717	22932	33651	6314
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600.2	124663	1.1368	137724	0.026833	10717	13715	24434	33905
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.8	122660	10.247	137944	0.049412	10717	22932	44368	3411
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600.5	123885	0.6409	138682	0.01655	10774	13772	24548	12101
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.5	123861	8.1628	130205	0.013205	10774	23046	44596	3166
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600.4	123781	5.1042	130205	0.01357	10774	23046	33822	4105
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600.2	123740	1.2488	137410	0.028712	10774	13772	24548	33101
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3601.2	115661	14.655	137462	0.1072	10774	23046	44596	688
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600.3	125495	0.43693	139924	0.016071	10796	13796	24592	14929
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3600.6	125406	8.7307	131603	0.013166	10796	23092	44684	3702
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600.5	125383	3.0555	131603	0.013116	10796	23092	33888	5006
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.3	125410	1.4928	138716	0.02783	10796	13796	24592	46729
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.4	123536	7.1869	138843	0.049987	10796	23092	44684	6302
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600.2	125612	0.75389	141853	0.028059	10739	13738	24478	10737
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600.6	126594	8.8826	133417	0.01671	10739	22977	44456	3435
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600.3	126830	4.7973	133417	0.014201	10739	22977	33717	3772
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600.1	126914	1.8297	140545	0.028313	10739	13738	24478	36560
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600.2	122824	13.971	140726	0.068677	10739	22977	44456	546
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600.1	125951	0.73189	140408	0.015702	10814	13815	24628	11026
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600.3	125451	12.925	132064	0.015864	10814	23129	44756	2115
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3600.5	125866	4.3933	132064	0.01189	10814	23129	33942	8402
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600.1	125762	1.5838	139130	0.025894	10814	13815	24628	40084
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3601.1	115277	17.348	139263	0.12826	10814	23129	44756	716
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600.4	125020	0.49393	138193	0.013191	10696	13697	24392	21686
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3601.4	124880	9.7335	130347	0.010748	10696	22893	44284	2668
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600.8	125083	6.365	130347	0.0086481	10696	22893	33588	4592
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600.6	124939	2.8956	137095	0.021472	10696	13697	24392	34085
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600.9	124660	11.862	137140	0.031197	10696	22893	44284	6250
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600.1	126659	0.43793	141128	0.017355	10831	13830	24662	13701
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.4	126356	12.145	133010	0.015663	10831	23161	44824	3480
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3600.2	126509	2.7736	133010	0.01367	10831	23161	33993	3546
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.5	126443	1.8987	139958	0.02908	10831	13830	24662	22898
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.6	118634	12.091	139982	0.10367	10831	23161	44824	1081
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600.1	124235	0.61091	138421	0.015724	10764	13765	24528	13957
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600.8	124211	8.9716	130268	0.011796	10764	23029	44556	2537
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.6	124258	4.4433	130268	0.010785	10764	23029	33792	7122
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600.2	124288	1.8067	137063	0.024206	10764	13765	24528	44174
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3601	115950	16.273	137512	0.10535	10764	23029	44556	926
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.4	166998	1.3928	186167	0.018262	14424	18420	32848	8511
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.9	167062	16.828	175298	0.013589	14424	30844	59696	1311
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.9	166944	10.447	175298	0.013758	14424	30844	45272	2227
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.1	167166	2.2417	184745	0.027344	14424	18420	32848	33842
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.4	147060	26.79	184654	0.17428	14424	30844	59696	584
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.2	168081	0.91886	187643	0.019162	14784	18783	33568	10208
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.3	168257	15.16	176278	0.013124	14784	31567	61136	4318
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.4	168384	7.6248	176278	0.012526	14784	31567	46352	3607
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.6	168005	3.0565	186036	0.02958	14784	18783	33568	14487
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3617.7	149174	18.285	185890	0.16713	14784	31567	61136	518
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.1	167024	0.92686	186709	0.019267	14810	18810	33620	8428
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3600.4	162548	22.71	175621	0.043051	14810	31620	61240	570
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.6	167192	7.2179	175621	0.014037	14810	31620	46430	1973
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.4	166765	2.1857	185094	0.031803	14810	18810	33620	42671
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.7	149118	27.704	185141	0.16081	14810	31620	61240	550
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600.5	166712	1.2548	185967	0.020008	14769	18768	33538	7082
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.3	164368	21.732	175362	0.030442	14769	31537	61076	528
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3601	166855	12.179	175362	0.0147	14769	31537	46307	1300
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.4	166837	3.0835	184491	0.029097	14769	18768	33538	12697
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.7	153290	23.067	184402	0.12668	14769	31537	61076	508

All Instances - Part 5

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.2	166388	1.3518	186674	0.022166	14726	18726	33452	6875
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3601.7	165688	16.896	175478	0.022558	14726	31452	60904	622
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.8	166728	8.7297	175478	0.015523	14726	31452	46178	2416
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.2	166940	2.2457	185039	0.029773	14726	18726	33452	21562
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.2	150420	26.433	185246	0.14972	14726	31452	60904	521
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.1	169780	1.2998	189340	0.018416	14600	18598	33200	8495
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3601.7	169685	19.403	178318	0.014741	14600	31198	60400	764
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3601.2	170204	6.662	178318	0.011461	14600	31198	45800	3364
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.4	170009	2.4206	187698	0.028508	14600	18598	33200	17259
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.1	155932	24.2	187866	0.12643	14600	31198	60400	463
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.2	169806	0.71989	189988	0.020114	14742	18743	33484	9309
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3601.1	167311	16.502	179041	0.032229	14742	31485	60968	684
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.2	169878	6.577	179041	0.016015	14742	31485	46226	2641
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600.6	169707	2.7266	188445	0.032607	14742	18743	33484	22698
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3600.1	152361	24.535	188540	0.15763	14742	31485	60968	483
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.1	170297	0.95386	189813	0.017606	14600	18599	33200	13182
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.1	166685	14.543	178933	0.035387	14600	31199	60400	662
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.1	170008	6.276	178933	0.014455	14600	31199	45800	2654
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.4	170038	1.8167	188255	0.029928	14600	18599	33200	19460
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3600.8	153308	19.398	188496	0.1494	14600	31199	60400	565
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.2	168725	1.3088	189585	0.026082	14638	18638	33276	8734
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.3	166575	21.042	178654	0.034742	14638	31276	60552	578
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.1	169508	10.111	178654	0.01687	14638	31276	45914	2003
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.3	169640	1.9457	188076	0.03217	14638	18638	33276	24942
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.7	152484	16.456	187950	0.1538	14638	31276	60552	518
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.3	170691	0.6589	189420	0.01534	14596	18597	33192	17490
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3601.5	170533	11.193	178641	0.012808	14596	31193	60384	2183
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3600.7	170470	6.9569	178641	0.013308	14596	31193	45788	2587
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.2	170445	2.3876	187961	0.027571	14596	18597	33192	20492
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3601	159644	20.287	187900	0.10299	14596	31193	60384	482
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.2	166156	1.1818	185971	0.018703	14619	18620	33238	9541
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.4	165644	18.044	174798	0.01682	14619	31239	60476	1082
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600.7	166288	9.6085	174798	0.012729	14619	31239	45857	4722
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.5	166063	2.4466	184257	0.030099	14619	18620	33238	26519
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3601.2	149669	30.412	184468	0.15058	14619	31239	60476	641
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.4	169104	0.92586	187797	0.015541	14923	18923	33846	13864
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.8	167710	12.437	177118	0.020679	14923	31846	61692	664
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3600.7	167669	11.036	177118	0.020595	14923	31846	46769	861
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.3	168927	1.2608	186338	0.027162	14923	18923	33846	47860
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600.8	151932	28.991	186289	0.14833	14923	31846	61692	463
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600.2	166585	1.3548	186903	0.021752	14740	18739	33480	9695
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3600.5	164120	21.345	175806	0.03292	14740	31479	60960	529
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.9	165762	9.8195	175806	0.022214	14740	31479	46220	790
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600.7	166584	3.9044	185324	0.033616	14740	18739	33480	42090
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.6	151436	22.703	185235	0.14243	14740	31479	60960	481
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600.5	167471	1.1278	187684	0.020947	14701	18702	33402	9355
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3601.3	164092	16.627	176615	0.037654	14701	31403	60804	708
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3600.9	167232	12.214	176615	0.017401	14701	31403	46103	927
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600.1	167638	1.2938	186246	0.032402	14701	18702	33402	18500
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3601	148416	28.682	186196	0.17432	14701	31403	60804	507
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600.1	163753	0.88087	182776	0.018357	14464	18463	32928	12142
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3601.6	160446	17.774	172334	0.035642	14464	30927	59856	584
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600.8	163487	9.5565	172334	0.016092	14464	30927	45392	1800
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.1	163828	1.1508	181042	0.029598	14464	18463	32928	51111
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.4	147570	17.156	181410	0.14743	14464	30927	59856	538
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600.2	165556	1.2228	185393	0.021941	14537	18537	33074	9307
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3601	166190	15.883	174817	0.01457	14537	31074	60148	1233
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600.1	166357	7.8678	174817	0.013525	14537	31074	45611	3734
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600.3	166233	2.1177	183705	0.028387	14537	18537	33074	29488
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3600.2	145147	26.829	184235	0.18356	14537	31074	60148	532
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600.2	167655	1.1438	187411	0.021903	14602	18602	33204	7166
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3600.2	167828	21.064	176737	0.01717	14602	31204	60408	576
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3601.2	167633	11.859	176737	0.018016	14602	31204	45806	1076
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600.7	168380	2.3606	185941	0.02871	14602	18602	33204	25567
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3601.7	155739	20.912	185871	0.11774	14602	31204	60408	578
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600.2	165548	1.1628	185105	0.020836	14653	18654	33306	9136
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3601	164336	14.422	174312	0.024009	14653	31307	60612	575
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3600.7	165991	7.0459	174312	0.014009	14653	31307	45959	3002
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600.1	165404	2.0547	183447	0.032663	14653	18654	33306	27099
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3600.4	152022	22.762	183734	0.12923	14653	31307	60612	474
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600	166703	0.96585	186082	0.01919	14432	18433	32864	9295
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.2	166768	9.9275	175237	0.014734	14432	30865	59728	1715
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3600.4	167022	9.9875	175237	0.012692	14432	30865	45296	3882
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.2	166816	2.9735	184428	0.029168	14432	18433	32864	18197
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3600.3	153439	26.556	184699	0.1251	14432	30865	59728	468
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3601	166505	1.4228	185776	0.021042	14614	18613	33228	7702
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3600.2	162151	22.698	175204	0.044329	14614	31227	60456	558
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.7	166876	8.4637	175204	0.013965	14614	31227	45842	2695
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600.7	166243	3.6435	184228	0.032605	14614	18613	33228	12102
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3600.5	154073	20.538	184294	0.12079	14614	31227	60456	508

All Instances - Part 6

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.4	209194	1.3758	233103	0.017372	17354	22354	39708	8709
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.2	209607	21.788	219407	0.011511	17354	37208	71916	3577
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3601	209392	11.114	219407	0.011856	17354	37208	54562	2681
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.2	208966	4.4653	231057	0.029027	17354	22354	39708	20413
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3600.6	190225	48.02	231190	0.13611	17354	37208	71916	514
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.1	207298	1.4288	233797	0.024167	17368	22365	39736	9503
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3600.3	204204	25.221	219324	0.034561	17368	37233	71972	575
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.6	208027	8.5867	219324	0.015548	17368	37233	54604	2908
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.2	208149	3.8114	231601	0.031883	17368	22365	39736	18480
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3600.1	188605	21.755	231755	0.14417	17368	37233	71972	515
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.1	210005	1.5638	234580	0.019826	17464	22462	39928	7298
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3601.4	206754	22.921	220737	0.031495	17464	37426	72356	613
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.9	209913	10.627	220737	0.015813	17464	37426	54892	1089
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.1	210439	3.3875	232542	0.028752	17464	22462	39928	22389
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.1	185857	38.375	232508	0.17184	17464	37426	72356	512
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3600.3	206797	1.2678	230936	0.019009	17450	22449	39900	8340
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.8	204397	21.166	217288	0.027343	17450	37399	72300	624
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3601.1	207519	12.1	217288	0.011674	17450	37399	54850	1217
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.2	207535	3.7314	228855	0.02595	17450	22449	39900	20479
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3600.4	191864	21.144	229039	0.11617	17450	37399	72300	554
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3600.3	207725	0.94286	231225	0.016772	17561	22560	40122	7864
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600.4	206574	28.917	217772	0.01913	17561	37621	72744	775
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.4	208016	12.447	217772	0.011713	17561	37621	55183	3875
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.8	207377	4.7243	229025	0.029823	17561	22560	40122	17463
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3600.5	185144	36.677	229644	0.16065	17561	37621	72744	475
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.6	207220	2.0967	231151	0.01895	17502	22502	40004	8086
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.4	203370	21.115	217591	0.033935	17502	37504	72508	607
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.7	204402	15.02	217591	0.028483	17502	37504	55006	706
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.4	207446	3.1295	229156	0.028004	17502	22502	40004	37961
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3600.3	183963	29.735	229003	0.16614	17502	37504	72508	527
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.1	206310	1.8147	231378	0.021917	17583	22583	40166	9986
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3601.2	206389	21.725	217255	0.016082	17583	37666	72832	1029
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.8	207021	10.784	217255	0.012982	17583	37666	55249	2006
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3600.3	206098	3.3015	229196	0.033414	17583	22583	40166	16091
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3601.8	186789	33.477	229561	0.14515	17583	37666	72832	538
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.2	204831	2.0717	230692	0.025471	17471	22469	39942	6394
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3601	201355	23.375	216822	0.038261	17471	37440	72384	554
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.8	204301	11.868	216822	0.023203	17471	37440	54913	824
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.2	205961	1.9717	228588	0.030606	17471	22469	39942	23551
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3601.2	181681	54.639	228504	0.17428	17471	37440	72384	514
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.3	209403	0.94186	233655	0.019189	17546	22543	40092	10390
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3600.2	205192	24.228	219909	0.035547	17546	37589	72684	528
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3601.1	207890	13.432	219909	0.021835	17546	37589	55138	793
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3600.1	209887	3.0235	231462	0.026944	17546	22543	40092	16753
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3600.9	197028	24.543	231924	0.10043	17546	37589	72684	478
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.3	208263	1.1188	231571	0.017423	17454	22454	39908	8098
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3601.1	206320	22.505	218253	0.023083	17454	37408	72316	595
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3601.4	206617	15.389	218253	0.020993	17454	37408	54862	681
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.3	208499	4.0974	229648	0.027155	17454	22454	39908	16892
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3622.1	190113	44.05	229546	0.13185	17454	37408	72316	494
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.6	206874	1.6747	230682	0.01728	17473	22474	39946	3513
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3601.4	202786	20.451	217046	0.033397	17473	37447	72392	679
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3600.7	206753	8.5567	217046	0.01344	17473	37447	54919	2633
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3600.2	206724	3.5605	228668	0.029304	17473	22474	39946	24371
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3600.2	190499	27.385	228631	0.12249	17473	37447	72392	529
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.2	207878	1.7597	232023	0.019775	17660	22659	40320	8010
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.7	205800	24.886	218319	0.025724	17660	37819	73140	504
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3601.1	208414	8.7687	218319	0.012672	17660	37819	55480	2785
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.2	208308	3.7864	229950	0.027039	17660	22659	40320	15572
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3600.7	183785	35.192	230068	0.17111	17660	37819	73140	504
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(U)	3600.3	203303	1.6758	227080	0.01968	17347	22345	39694	7608
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(I)	3602.4	200725	24.495	213825	0.028976	17347	37192	71888	571
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(L)	3600.2	203739	11.979	213825	0.012971	17347	37192	54541	1974
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(P)	3600.2	203126	6.0011	224840	0.032282	17347	22345	39694	19291
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.12	Feasible	(STM)	3600.5	183869	55.748	225294	0.14608	17347	37192	71888	470
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(U)	3600.1	207458	1.6977	232040	0.01957	17901	22899	40802	8564
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(I)	3600.6	204402	25.267	218568	0.030774	17901	38300	74104	654
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(L)	3601.3	207753	13.521	218568	0.01385	17901	38300	56203	2574
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(P)	3600.5	207419	4.5343	229696	0.03194	17901	22899	40802	16271
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.13	Feasible	(STM)	3601.2	184332	40.246	230708	0.16869	17901	38300	74104	494
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(U)	3600.2	205893	1.4438	229949	0.020711	17542	22542	40084	7306
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(I)	3601.4	205666	18.112	216765	0.018259	17542	37584	72668	698
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(L)	3600.2	206321	8.2308	216765	0.014505	17542	37584	55126	1194
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(P)	3600.1	206778	3.0585	227877	0.02782	17542	22542	40084	25072
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.14	Feasible	(STM)	3600.6	183955	31.246	228241	0.16514	17542	37584	72668	497
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(U)	3600.2	203789	1.6847	228387	0.022252	17349	22346	39698	8300
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(I)	3600.9	200753	19.885	214863	0.034182	17349	37195	71896	481
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(L)	3600.9	204937	8.9396	214863	0.012492	17349	37195	54547	4195
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(P)	3600.3	204661	3.6604	226245	0.02884	17349	22346	39698	16454
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.15	Feasible	(STM)	3602.8	180478	31.84	226487	0.17611	17349	37195	71896	481

All Instances - Part 7

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(U)	3600.2	210076	1.2408	234383	0.019668	17502	22501	40004	9662
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(I)	3601.8	206629	17.373	220478	0.032621	17502	37503	72508	627
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(L)	3601.1	209072	13.753	220478	0.019959	17502	37503	55006	805
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(P)	3600.2	209918	3.3995	232190	0.031619	17502	22501	40004	28462
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.16	Feasible	(STM)	3600.3	187681	21.718	232548	0.15894	17502	37503	72508	596
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(U)	3600.7	205292	1.5538	230055	0.022009	17431	22431	39862	9918
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(I)	3601.5	205152	20.958	216415	0.018797	17431	37362	72224	892
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(L)	3601.6	206302	12.558	216415	0.012903	17431	37362	54793	3984
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(P)	3600.1	206196	3.1605	228102	0.028562	17431	22431	39862	25161
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.17	Feasible	(STM)	3601	185898	16.622	227854	0.14693	17431	37362	72224	491
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(U)	3600.4	204924	2.0057	229478	0.021494	17356	22357	39712	7311
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(I)	3600.8	202307	22.117	215818	0.030323	17356	37213	71924	667
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(L)	3601.1	204425	15.498	215818	0.019023	17356	37213	54568	892
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(P)	3600.8	205597	5.1022	227323	0.029644	17356	22357	39712	19310
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.18	Feasible	(STM)	3601.1	188467	28.732	227420	0.1281	17356	37213	71924	487
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(U)	3600.1	205389	2.1457	229781	0.020862	17564	22563	40128	7680
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(I)	3601.8	202146	29.756	216331	0.032562	17564	37627	72756	493
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(L)	3600.2	206016	9.7955	216331	0.012899	17564	37627	55192	1836
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(P)	3600.2	205835	3.0705	227874	0.03022	17564	22563	40128	19479
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25.19	Feasible	(STM)	3601	183200	40.961	227891	0.16766	17564	37627	72756	493
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(U)	3600.4	255508	3.5535	284908	0.018609	22097	28096	50194	6750
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(I)	3600.4	248155	33.746	268331	0.044533	22097	47193	91388	481
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(L)	3600.6	250857	14.911	268331	0.032953	22097	47193	69291	534
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(P)	3600.4	255519	2.6876	282533	0.030858	22097	28096	50194	26531
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.0	Feasible	(STM)	3602	219281	39.862	282663	0.21311	22097	47193	91388	481
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(U)	3600.1	248406	2.0987	277269	0.020228	22110	28107	50220	6112
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(I)	3602.1	241522	32.852	261087	0.044572	22110	47217	91440	477
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(L)	3600.4	244500	23.131	261087	0.031512	22110	47217	69330	537
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(P)	3600.9	248236	6.373	274907	0.032695	22110	28107	50220	10273
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.1	Feasible	(STM)	3601.9	189805	75.921	274998	0.37123	22110	47217	91440	477
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(U)	3600.1	252800	1.6078	282116	0.021352	22321	28322	50642	8106
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(I)	3601.6	247215	45.762	265752	0.041074	22321	47643	92284	467
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(L)	3600.8	249878	21.09	265752	0.028725	22321	47643	69963	567
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(P)	3600.2	253671	6.79	279813	0.028532	22321	28322	50642	10585
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.2	Feasible	(STM)	3600.2	226954	67.675	279787	0.1675	22321	47643	92284	467
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(U)	3601.1	249207	1.9357	279517	0.021749	21961	27960	49922	7873
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(I)	3600.7	241803	44.24	262761	0.049589	21961	46921	90844	460
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(L)	3600.8	244083	18.903	262761	0.037841	21961	46921	68883	534
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(P)	3600.8	245710	6.786	277065	0.049202	21961	27960	49922	9914
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.3	Feasible	(STM)	3601.3	196929	51.208	276958	0.32905	21961	46921	90844	470
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(U)	3601.2	251744	2.4476	280996	0.018167	22159	28156	50318	5640
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(I)	3600.7	251002	30.571	264361	0.017983	22159	47315	91636	503
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(L)	3600.8	248374	20.223	264361	0.027021	22159	47315	69477	603
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(P)	3600.8	251002	7.4669	278597	0.032985	22159	28156	50318	11340
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.4	Feasible	(STM)	3602.4	220843	82.691	278612	0.19329	22159	47315	91636	401
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(U)	3600.2	251052	1.8327	281465	0.024634	22028	28029	50056	7600
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(I)	3600.2	246512	29.076	265388	0.039478	22028	47057	91112	514
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(L)	3600.6	247010	22.727	265388	0.036977	22028	47057	69084	536
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(P)	3600.2	251955	8.0968	279288	0.034002	22028	28029	50056	11467
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.5	Feasible	(STM)	3601.1	219957	49.166	278981	0.19314	22028	47057	91112	514
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(U)	3600.1	249887	1.3948	279970	0.021271	22155	28155	50310	7764
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(I)	3604.3	241085	26.91	263244	0.053966	22155	47310	91620	480
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(L)	3600.4	242854	15.324	263244	0.046267	22155	47310	69465	515
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(P)	3601.2	249951	7.4009	277753	0.033525	22155	28155	50310	15531
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.6	Feasible	(STM)	3602.5	208246	48.766	277822	0.2502	22155	47310	91620	480
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(U)	3600.6	248307	1.3268	278219	0.022954	22097	28096	50194	4033
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(I)	3600.8	241064	47.131	262011	0.050284	22097	47193	91388	481
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(L)	3600.8	244680	16.573	262011	0.033047	22097	47193	69291	554
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(P)	3600.3	248824	3.6884	275787	0.033244	22097	28096	50194	16380
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.7	Feasible	(STM)	3602.4	217138	88.01	275850	0.20354	22097	47193	91388	301
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(U)	3600.7	251620	2.4026	280457	0.018372	22070	28071	50140	9701
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(I)	3606.7	247119	30.701	264026	0.033	22070	47141	91280	456
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(L)	3600.8	247353	16.148	264026	0.031635	22070	47141	69210	526
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(P)	3601.1	251224	6.9949	278163	0.032124	22070	28071	50140	10692
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.8	Feasible	(STM)	3602	221599	51.075	278285	0.17804	22070	47141	91280	456
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(U)	3600.2	253374	2.3167	282630	0.018473	22223	28220	50446	5762
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(I)	3601.6	246075	28.719	266026	0.045444	22223	47443	91892	495
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(L)	3601.3	247616	14.628	266026	0.037499	22223	47443	69669	586
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(P)	3600.9	252732	5.3032	280328	0.033418	22223	28220	50446	28462
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.9	Feasible	(STM)	3601	225320	42.045	280205	0.17202	22223	47443	91892	495
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(U)	3600.2	256021	2.3956	284781	0.01662	22159	28158	50318	5623
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(I)	3600.3	250114	29.083	268469	0.037073	22159	47317	91636	503
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(L)	3601.3	252793	13.737	268469	0.025683	22159	47317	69477	605
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(P)	3601.3	255179	4.3203	282292	0.032975	22159	28158	50318	11642
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.10	Feasible	(STM)	3601.6	230406	65.506	282997	0.161	22159	47317	91636	301
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(U)	3600.2	251225	2.4586	280423	0.020233	22155	28152	50310	5126
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(I)	3600.1	244888	32.134	264165	0.042081	22155	47307	91620	477
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(L)	3602.3	248584	22.776	264165	0.026249	22155	47307	69465	783
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(P)	3600.8	251125	6.0981	278068	0.032845	22155	28152	50310	16528
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25.11	Feasible	(STM)	3608.9	221683	63.851	278168	0.18083	22155	47307	91620	477

Table with Means and Standard Deviations

group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.1	0.059689	0.12803	0.024026	53778	13995	0.013469	0.0022689	0.09469
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.2	0.086445	1.9567	0.48518	14090	2810.8	0.011434	0.0019363	0.038813
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.1	0.05792	1.064	0.26375	25347	7524.3	0.010701	0.0018504	0.039499
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.1	0.040679	0.3392	0.070988	1.0647e+05	25965	0.021986	0.0029188	0.08275
c-n=500-c=31-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.2	0.084617	2.7211	0.74923	11822	4169.1	0.035986	0.0044023	0.071537
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.2	0.10627	0.36075	0.071963	24809	7487.5	0.014808	0.0012095	0.092069
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.4	0.26237	5.4621	1.2344	6976.1	2241.3	0.012446	0.0018357	0.036171
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.3	0.1702	2.7268	0.7081	10609	3014	0.011355	0.0012702	0.036516
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.2	0.07877	0.81393	0.22732	59640	16844	0.023774	0.0016154	0.078457
c-n=1000-c=37-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.5	0.20565	5.937	1.2031	5625.4	873.42	0.039399	0.004783	0.071247
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.3	0.1639	0.58826	0.14816	14585	4100.8	0.016339	0.0030285	0
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.6	0.37894	10.027	2.0986	3102.1	722.43	0.013303	0.001717	0
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.4	0.18995	4.7122	1.1074	4881.9	1634.7	0.011935	0.0013752	0
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.3	0.13159	1.6777	0.42179	35800	11025	0.026231	0.0020659	0
c-n=1500-c=40-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3600.8	0.33665	13.064	2.6977	2095.9	1868.2	0.089055	0.043355	0
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.3	0.21117	1.1088	0.22047	9775.9	2528.4	0.019832	0.0023813	0
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3600.8	0.53787	17.311	3.6539	1022.2	872.21	0.02556	0.010505	0
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.7	0.33292	9.012	1.8957	2413.1	1076.6	0.015195	0.0026695	0
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.4	0.2	2.3658	0.70875	26432	11220	0.03014	0.0019557	0
c-n=2000-c=42-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3601.5	3.7479	23.635	4.0282	519.1	45.605	0.14542	0.020848	0
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.3	0.17322	1.5753	0.35088	8127	1475	0.02017	0.0022087	0
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3601	0.58116	22.813	3.0367	787.15	653.08	0.027828	0.0073405	0
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.9	0.38032	11.648	2.2898	1982.6	1138.6	0.015941	0.0045838	0
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.3	0.18466	3.7489	0.86486	20996	5273.2	0.029441	0.0019859	0
c-n=2500-c=44-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3601.9	4.6767	34.105	10.656	508.15	29.449	0.1499	0.02119	0
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25	(U)	0	20	3600.4	0.3488	2.1039	0.51239	6443.6	1358.6	0.020472	0.0026929	0
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25	(I)	0	20	3601.5	1.5794	33.846	8.3397	493.05	38.457	0.03931	0.010182	0
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25	(L)	0	20	3600.8	0.46709	17.707	3.0859	579.35	67.086	0.031078	0.0062642	0
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25	(P)	0	20	3600.7	0.37182	5.7806	1.5405	15751	5677.4	0.033052	0.0040813	0
c-n=3000-c=45-p=7-o=8-l=1-h=100-d=0.25	(STM)	0	20	3603.8	8.3602	62.845	22.504	443.2	64.961	0.20008	0.054315	0

2 Neighborhood Model

All Instances - Part 1

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=500-h=3-d=8-m=10.0	Feasible	(U)	3600	749378	0.16698	797992	0.011781	3770	4771	8540	79236
n-n=500-h=3-d=8-m=10.0	Feasible	(I)	3600.3	749284	1.6607	773531	0.010909	3770	8041	15580	43687
n-n=500-h=3-d=8-m=10.0	Feasible	(L)	3600.2	749378	0.6689	773531	0.010764	3770	8041	11810	59872
n-n=500-h=3-d=8-m=10.0	Feasible	(P)	3600.1	749378	0.39294	791073	0.018168	3770	4771	8540	197412
n-n=500-h=3-d=8-m=10.0	Feasible	(STM)	3600.1	749279	1.6847	786138	0.021581	3770	8041	15580	27283
n-n=500-h=3-d=8-m=10.1	Feasible	(U)	3600.1	477611	0.22297	530745	0.0099249	3857	4858	8714	65903
n-n=500-h=3-d=8-m=10.1	Feasible	(I)	3600.4	477600	1.6698	501298	0.0084972	3857	8215	15928	38279
n-n=500-h=3-d=8-m=10.1	Feasible	(L)	3600.1	477611	0.92486	501298	0.007789	3857	8215	12071	66471
n-n=500-h=3-d=8-m=10.1	Feasible	(P)	3600.1	477611	0.33995	521571	0.021033	3857	4858	8714	117003
n-n=500-h=3-d=8-m=10.1	Feasible	(STM)	3600.1	477592	2.5116	514568	0.024067	3857	8215	15928	38983
n-n=500-h=3-d=8-m=10.2	Feasible	(U)	3600.2	444890	0.17997	493919	0.011112	3746	4747	8492	61671
n-n=500-h=3-d=8-m=10.2	Feasible	(I)	3600.2	444890	1.4118	466365	0.010174	3746	7993	15484	38373
n-n=500-h=3-d=8-m=10.2	Feasible	(L)	3600.2	444890	0.91986	466365	0.0099228	3746	7993	11738	63287
n-n=500-h=3-d=8-m=10.2	Feasible	(P)	3600.1	444890	0.37994	486423	0.02279	3746	4747	8492	103780
n-n=500-h=3-d=8-m=10.2	Feasible	(STM)	3600.2	444430	1.7937	482328	0.030092	3746	7993	15484	46173
n-n=500-h=3-d=8-m=10.3	Feasible	(U)	3600.2	469168	0.16498	523299	0.01208	3896	4896	8792	68784
n-n=500-h=3-d=8-m=10.3	Feasible	(I)	3600	469168	1.7007	493895	0.012152	3896	8292	16084	51915
n-n=500-h=3-d=8-m=10.3	Feasible	(L)	3600.1	469168	1.1878	493895	0.012085	3896	8292	12188	50203
n-n=500-h=3-d=8-m=10.3	Feasible	(P)	3600.1	469168	0.47493	514216	0.026861	3896	4896	8792	120784
n-n=500-h=3-d=8-m=10.3	Feasible	(STM)	3600.1	469124	3.0845	507539	0.029496	3896	8292	16084	39184
n-n=500-h=3-d=8-m=10.4	Feasible	(U)	3600.1	415400	0.14598	469744	0.016332	3611	4612	8222	104921
n-n=500-h=3-d=8-m=10.4	Feasible	(I)	3600.2	415367	1.4058	442677	0.017173	3611	7723	14944	48898
n-n=500-h=3-d=8-m=10.4	Feasible	(L)	3600.2	415400	0.62991	442677	0.015486	3611	7723	11333	72287
n-n=500-h=3-d=8-m=10.4	Feasible	(P)	3600	415387	0.24496	461803	0.031653	3611	4612	8222	128770
n-n=500-h=3-d=8-m=10.4	Feasible	(STM)	3600.2	415028	2.2946	457515	0.038642	3611	7723	14944	37598
n-n=500-h=3-d=8-m=10.5	Feasible	(U)	3600	450970	0.29296	506176	0.018857	3816	4817	8632	60789
n-n=500-h=3-d=8-m=10.5	Feasible	(I)	3600.2	450912	1.2428	477824	0.017622	3816	8133	15764	58403
n-n=500-h=3-d=8-m=10.5	Feasible	(L)	3600.1	450970	1.3548	477824	0.017576	3816	8133	11948	44424
n-n=500-h=3-d=8-m=10.5	Feasible	(P)	3600.1	450970	0.48293	497434	0.033099	3816	4817	8632	206515
n-n=500-h=3-d=8-m=10.5	Feasible	(STM)	3600.1	450946	1.5828	491988	0.036924	3816	8133	15764	45803
n-n=500-h=3-d=8-m=10.6	Feasible	(U)	3600.1	441002	0.18697	489990	0.01194	3744	4745	8488	77437
n-n=500-h=3-d=8-m=10.6	Feasible	(I)	3600.3	441002	1.4018	461746	0.0097332	3744	7989	15476	102391
n-n=500-h=3-d=8-m=10.6	Feasible	(L)	3600.1	441002	1.2088	461746	0.0092623	3744	7989	11732	72787
n-n=500-h=3-d=8-m=10.6	Feasible	(P)	3600	441002	0.46093	481855	0.023014	3744	4745	8488	95354
n-n=500-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	440802	1.7127	476998	0.028116	3744	7989	15476	34301
n-n=500-h=3-d=8-m=10.7	Feasible	(U)	3600.1	435276	0.14398	482232	0.010652	3817	4818	8634	61071
n-n=500-h=3-d=8-m=10.7	Feasible	(I)	3600.2	435276	1.6487	454827	0.0087842	3817	8135	15768	48209
n-n=500-h=3-d=8-m=10.7	Feasible	(L)	3600.1	435276	0.85387	454827	0.0082714	3817	8135	11951	68532
n-n=500-h=3-d=8-m=10.7	Feasible	(P)	3600	435276	0.44293	474405	0.021071	3817	4818	8634	101468
n-n=500-h=3-d=8-m=10.7	Feasible	(STM)	3600.1	435276	1.7417	469478	0.025705	3817	8135	15768	37109
n-n=500-h=3-d=8-m=10.8	Feasible	(U)	3600.2	414763	0.17197	464281	0.016653	3933	4933	8866	66515
n-n=500-h=3-d=8-m=10.8	Feasible	(I)	3600.3	414753	1.6957	437565	0.014727	3933	8366	16232	58489
n-n=500-h=3-d=8-m=10.8	Feasible	(L)	3600.3	414763	1.1848	437565	0.014885	3933	8366	12299	54376
n-n=500-h=3-d=8-m=10.8	Feasible	(P)	3600.3	414763	0.37594	457470	0.029727	3933	4933	8866	135615
n-n=500-h=3-d=8-m=10.8	Feasible	(STM)	3600.2	414685	2.1697	452750	0.036687	3933	8366	16232	33089
n-n=500-h=3-d=8-m=10.9	Feasible	(U)	3600.1	397062	0.17997	450432	0.018891	3721	4721	8442	72510
n-n=500-h=3-d=8-m=10.9	Feasible	(I)	3600.1	397062	2.2986	422034	0.015944	3721	7942	15384	43780
n-n=500-h=3-d=8-m=10.9	Feasible	(L)	3600.1	397062	0.85287	422034	0.015229	3721	7942	11663	64396
n-n=500-h=3-d=8-m=10.9	Feasible	(P)	3600.1	397068	0.35695	442687	0.033655	3721	4721	8442	136099
n-n=500-h=3-d=8-m=10.9	Feasible	(STM)	3600.1	396529	1.8447	436703	0.039947	3721	7942	15384	28904
n-n=500-h=3-d=8-m=10.10	Feasible	(U)	3600.1	450674	0.16098	503052	0.014974	3750	4750	8500	79175
n-n=500-h=3-d=8-m=10.10	Feasible	(I)	3600.1	450628	0.99685	474867	0.013657	3750	8000	15500	45296
n-n=500-h=3-d=8-m=10.10	Feasible	(L)	3600.2	450647	0.99385	474867	0.012221	3750	8000	11750	52174
n-n=500-h=3-d=8-m=10.10	Feasible	(P)	3600.1	450628	0.43593	494562	0.027822	3750	4750	8500	120491
n-n=500-h=3-d=8-m=10.10	Feasible	(STM)	3600.2	450208	1.7707	488854	0.032804	3750	8000	15500	55096
n-n=500-h=3-d=8-m=10.11	Feasible	(U)	3600.1	468958	0.18897	519623	0.013213	3682	4683	8364	67663
n-n=500-h=3-d=8-m=10.11	Feasible	(I)	3600	468958	1.9927	490416	0.011339	3682	7865	15228	42541
n-n=500-h=3-d=8-m=10.11	Feasible	(L)	3600.2	468958	1.0528	490416	0.0099463	3682	7865	11546	63811
n-n=500-h=3-d=8-m=10.11	Feasible	(P)	3600.1	468958	0.43793	510687	0.024522	3682	4683	8364	129563
n-n=500-h=3-d=8-m=10.11	Feasible	(STM)	3600.3	468498	2.0147	503902	0.025171	3682	7865	15228	36700
n-n=500-h=3-d=8-m=10.12	Feasible	(U)	3600.1	470834	0.14098	516918	0.0092496	3703	4704	8406	68686
n-n=500-h=3-d=8-m=10.12	Feasible	(I)	3600.3	470834	1.5948	491930	0.0087354	3703	7907	15312	54925
n-n=500-h=3-d=8-m=10.12	Feasible	(L)	3600.2	470834	0.88987	491930	0.0088212	3703	7907	11609	52202
n-n=500-h=3-d=8-m=10.12	Feasible	(P)	3600.1	470833	0.35395	508645	0.018641	3703	4704	8406	132286
n-n=500-h=3-d=8-m=10.12	Feasible	(STM)	3600.1	470834	2.1477	505553	0.023871	3703	7907	15312	43725
n-n=500-h=3-d=8-m=10.13	Feasible	(U)	3600.1	384179	0.14298	441477	0.024046	3732	4730	8464	64575
n-n=500-h=3-d=8-m=10.13	Feasible	(I)	3600.4	384012	2.0447	412759	0.021377	3732	7962	15428	32466
n-n=500-h=3-d=8-m=10.13	Feasible	(L)	3600.3	384158	0.77688	412759	0.019742	3732	7962	11696	67409
n-n=500-h=3-d=8-m=10.13	Feasible	(P)	3600.1	384150	0.37294	434000	0.041066	3732	4730	8464	108975
n-n=500-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	384062	0.97585	427562	0.04606	3732	7962	15428	53821
n-n=500-h=3-d=8-m=10.14	Feasible	(U)	3600.1	432931	0.16997	485826	0.013814	3647	4648	8294	70911
n-n=500-h=3-d=8-m=10.14	Feasible	(I)	3600.3	432849	1.5758	456569	0.011012	3647	7795	15088	48799
n-n=500-h=3-d=8-m=10.14	Feasible	(L)	3600.1	432931	0.62491	456569	0.011283	3647	7795	11441	93671
n-n=500-h=3-d=8-m=10.14	Feasible	(P)	3600.1	432870	0.52892	477366	0.025764	3647	4648	8294	110847
n-n=500-h=3-d=8-m=10.14	Feasible	(STM)	3600.2	432701	2.9166	470279	0.031907	3647	7795	15088	43099
n-n=500-h=3-d=8-m=10.15	Feasible	(U)	3600.1	422050	0.16897	475065	0.015108	3773	4773	8546	63220
n-n=500-h=3-d=8-m=10.15	Feasible	(I)	3600.1	422050	0.83587	445138	0.0132	3773	8046	15592	37399
n-n=500-h=3-d=8-m=10.15	Feasible	(L)	3600.2	422050	1.0898	445138	0.01313	3773	8046	11819	40986
n-n=500-h=3-d=8-m=10.15	Feasible	(P)	3600.1	422050	0.52292	465778	0.027196	3773	4773	8546	126520
n-n=500-h=3-d=8-m=10.15	Feasible	(STM)	3600.2	421956	2.1837	458910	0.033931	3773	8046	15592	38499

All Instances - Part 2

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=500-h=3-d=8-m=10.16	Feasible	(U)	3600.1	485334	0.12098	536960	0.011401	3672	4673	8344	90061
n-n=500-h=3-d=8-m=10.16	Feasible	(I)	3600.1	485331	1.3008	508055	0.0097792	3672	7845	15188	66714
n-n=500-h=3-d=8-m=10.16	Feasible	(L)	3600.2	485334	0.72389	508055	0.0099513	3672	7845	11516	47041
n-n=500-h=3-d=8-m=10.16	Feasible	(P)	3600.1	485334	0.53792	528118	0.02211	3672	4673	8344	131328
n-n=500-h=3-d=8-m=10.16	Feasible	(STM)	3600.2	485331	2.5846	519920	0.025331	3672	7845	15188	47513
n-n=500-h=3-d=8-m=10.17	Feasible	(U)	3600	474130	0.21997	526643	0.010256	3835	4836	8670	57324
n-n=500-h=3-d=8-m=10.17	Feasible	(I)	3600.4	474130	1.8307	497528	0.0071369	3835	8171	15840	30482
n-n=500-h=3-d=8-m=10.17	Feasible	(L)	3600.3	474130	1.1928	497528	0.0067865	3835	8171	12005	61089
n-n=500-h=3-d=8-m=10.17	Feasible	(P)	3600.1	474130	0.35495	517498	0.019156	3835	4836	8670	126423
n-n=500-h=3-d=8-m=10.17	Feasible	(STM)	3600.3	473951	2.4726	511567	0.027358	3835	8171	15840	53882
n-n=500-h=3-d=8-m=10.18	Feasible	(U)	3600.1	483009	0.11698	536829	0.016324	3838	4838	8676	105840
n-n=500-h=3-d=8-m=10.18	Feasible	(I)	3600.1	483185	1.5368	507725	0.013498	3838	8176	15852	73570
n-n=500-h=3-d=8-m=10.18	Feasible	(L)	3600.1	483082	0.72289	507725	0.014	3838	8176	12014	70381
n-n=500-h=3-d=8-m=10.18	Feasible	(P)	3600.1	483208	0.38194	528414	0.025541	3838	4838	8676	145740
n-n=500-h=3-d=8-m=10.18	Feasible	(STM)	3600.3	482931	2.7396	519158	0.030269	3838	8176	15852	39599
n-n=500-h=3-d=8-m=10.19	Feasible	(U)	3600.1	435034	0.20497	485669	0.014833	3901	4901	8802	72059
n-n=500-h=3-d=8-m=10.19	Feasible	(I)	3600.3	435020	2.0257	458674	0.013098	3901	8302	16104	64838
n-n=500-h=3-d=8-m=10.19	Feasible	(L)	3600.3	435034	1.5288	458674	0.012781	3901	8302	12203	80006
n-n=500-h=3-d=8-m=10.19	Feasible	(P)	3600.1	434997	0.52492	477802	0.028917	3901	4901	8802	142759
n-n=500-h=3-d=8-m=10.19	Feasible	(STM)	3600.2	434993	2.7036	473166	0.032531	3901	8302	16104	37127
n-n=1000-h=3-d=8-m=10.0	Feasible	(U)	3600.2	1.1952e+06	0.56591	1.3401e+06	0.018663	7750	9750	17500	36986
n-n=1000-h=3-d=8-m=10.0	Feasible	(I)	3600.9	1.195e+06	7.3789	1.2633e+06	0.015395	7750	16500	32000	16751
n-n=1000-h=3-d=8-m=10.0	Feasible	(L)	3600.7	1.1949e+06	4.0564	1.2633e+06	0.015118	7750	16500	24250	26961
n-n=1000-h=3-d=8-m=10.0	Feasible	(P)	3600.3	1.195e+06	1.4248	1.3164e+06	0.034022	7750	9750	17500	71386
n-n=1000-h=3-d=8-m=10.0	Feasible	(STM)	3600.1	1.1948e+06	6.287	1.3033e+06	0.037365	7750	16500	32000	14116
n-n=1000-h=3-d=8-m=10.1	Feasible	(U)	3600.5	1.2625e+06	0.49293	1.4058e+06	0.016248	7791	9791	17582	51174
n-n=1000-h=3-d=8-m=10.1	Feasible	(I)	3600.9	1.2622e+06	7.3389	1.326e+06	0.013893	7791	16582	32164	18382
n-n=1000-h=3-d=8-m=10.1	Feasible	(L)	3600.6	1.2619e+06	2.3696	1.326e+06	0.013685	7791	16582	24373	41191
n-n=1000-h=3-d=8-m=10.1	Feasible	(P)	3600.3	1.2621e+06	1.4298	1.3824e+06	0.029139	7791	9791	17582	60074
n-n=1000-h=3-d=8-m=10.1	Feasible	(STM)	3600.1	1.2609e+06	7.4759	1.3665e+06	0.03282	7791	16582	32164	15127
n-n=1000-h=3-d=8-m=10.2	Feasible	(U)	3600	1.1301e+06	0.36794	1.2727e+06	0.016975	7636	9634	17272	53137
n-n=1000-h=3-d=8-m=10.2	Feasible	(I)	3600.5	1.1301e+06	4.2324	1.1956e+06	0.014386	7636	16270	31544	31320
n-n=1000-h=3-d=8-m=10.2	Feasible	(L)	3600.7	1.1295e+06	3.2425	1.1956e+06	0.014816	7636	16270	23908	29251
n-n=1000-h=3-d=8-m=10.2	Feasible	(P)	3600.2	1.1301e+06	1.0189	1.2501e+06	0.034015	7636	9634	17272	67792
n-n=1000-h=3-d=8-m=10.2	Feasible	(STM)	3600.1	1.13e+06	3.2615	1.2313e+06	0.035159	7636	16270	31544	22007
n-n=1000-h=3-d=8-m=10.3	Feasible	(U)	3600.2	1.2225e+06	0.60691	1.3679e+06	0.019501	7564	9560	17128	48104
n-n=1000-h=3-d=8-m=10.3	Feasible	(I)	3600.7	1.222e+06	5.4822	1.2896e+06	0.015752	7564	16124	31256	24676
n-n=1000-h=3-d=8-m=10.3	Feasible	(L)	3600.6	1.2221e+06	3.4065	1.2896e+06	0.016257	7564	16124	23692	25372
n-n=1000-h=3-d=8-m=10.3	Feasible	(P)	3600.2	1.2219e+06	1.5318	1.3438e+06	0.032874	7564	9560	17128	56704
n-n=1000-h=3-d=8-m=10.3	Feasible	(STM)	3600.4	1.2221e+06	6.0361	1.3302e+06	0.038006	7564	16124	31256	13176
n-n=1000-h=3-d=8-m=10.4	Feasible	(U)	3600.1	1.365e+06	0.45493	1.5118e+06	0.016786	7711	9712	17422	37722
n-n=1000-h=3-d=8-m=10.4	Feasible	(I)	3601.2	1.3646e+06	5.2572	1.4339e+06	0.014399	7711	16423	31844	14788
n-n=1000-h=3-d=8-m=10.4	Feasible	(L)	3600.6	1.3643e+06	3.3925	1.4339e+06	0.014793	7711	16423	24133	18997
n-n=1000-h=3-d=8-m=10.4	Feasible	(P)	3600.1	1.3646e+06	1.2538	1.488e+06	0.030848	7711	9712	17422	46644
n-n=1000-h=3-d=8-m=10.4	Feasible	(STM)	3600.2	1.3634e+06	8.0138	1.4754e+06	0.033953	7711	16423	31844	10222
n-n=1000-h=3-d=8-m=10.5	Feasible	(U)	3600.2	1.2293e+06	0.41794	1.3738e+06	0.017814	7652	9653	17304	48203
n-n=1000-h=3-d=8-m=10.5	Feasible	(I)	3600.5	1.229e+06	4.6193	1.2957e+06	0.015759	7652	16305	31608	16884
n-n=1000-h=3-d=8-m=10.5	Feasible	(L)	3600.7	1.2287e+06	3.4565	1.2957e+06	0.015529	7652	16305	23956	36512
n-n=1000-h=3-d=8-m=10.5	Feasible	(P)	3600.2	1.2277e+06	0.77188	1.3507e+06	0.03298	7652	9653	17304	131603
n-n=1000-h=3-d=8-m=10.5	Feasible	(STM)	3600.1	1.2284e+06	6.711	1.3347e+06	0.035732	7652	16305	31608	14950
n-n=1000-h=3-d=8-m=10.6	Feasible	(U)	3600.3	1.2757e+06	0.50192	1.4272e+06	0.018733	7442	9443	16884	37588
n-n=1000-h=3-d=8-m=10.6	Feasible	(I)	3600.5	1.2748e+06	3.3745	1.346e+06	0.016401	7442	15885	30768	24004
n-n=1000-h=3-d=8-m=10.6	Feasible	(L)	3600.1	1.2747e+06	2.9705	1.346e+06	0.016603	7442	15885	23326	37033
n-n=1000-h=3-d=8-m=10.6	Feasible	(P)	3600.1	1.2754e+06	1.1828	1.4047e+06	0.033218	7442	9443	16884	57513
n-n=1000-h=3-d=8-m=10.6	Feasible	(STM)	3600.1	1.274e+06	5.0052	1.3829e+06	0.038211	7442	15885	30768	10444
n-n=1000-h=3-d=8-m=10.7	Feasible	(U)	3600.2	1.2362e+06	0.42294	1.374e+06	0.019759	7780	9781	17560	57297
n-n=1000-h=3-d=8-m=10.7	Feasible	(I)	3600.1	1.2356e+06	6.521	1.3054e+06	0.018151	7780	16561	32120	14567
n-n=1000-h=3-d=8-m=10.7	Feasible	(L)	3600.1	1.2361e+06	4.0404	1.3054e+06	0.017303	7780	16561	24340	20650
n-n=1000-h=3-d=8-m=10.7	Feasible	(P)	3600.6	1.2363e+06	1.6178	1.3536e+06	0.034648	7780	9781	17560	46097
n-n=1000-h=3-d=8-m=10.7	Feasible	(STM)	3600.2	1.2355e+06	6.559	1.3377e+06	0.036825	7780	16561	32120	14070
n-n=1000-h=3-d=8-m=10.8	Feasible	(U)	3600	1.2724e+06	0.40994	1.4096e+06	0.014265	7613	9614	17226	61452
n-n=1000-h=3-d=8-m=10.8	Feasible	(I)	3600.9	1.2721e+06	5.8711	1.3355e+06	0.012219	7613	16227	31452	19165
n-n=1000-h=3-d=8-m=10.8	Feasible	(L)	3600.4	1.272e+06	2.2896	1.3355e+06	0.011761	7613	16227	23839	37692
n-n=1000-h=3-d=8-m=10.8	Feasible	(P)	3600.2	1.272e+06	1.5678	1.3884e+06	0.028353	7613	9614	17226	51521
n-n=1000-h=3-d=8-m=10.8	Feasible	(STM)	3600.2	1.2717e+06	5.1292	1.3736e+06	0.031235	7613	16227	31452	17565
n-n=1000-h=3-d=8-m=10.9	Feasible	(U)	3600.1	1.206e+06	0.44593	1.3543e+06	0.020321	7703	9702	17406	62078
n-n=1000-h=3-d=8-m=10.9	Feasible	(I)	3601.6	1.2039e+06	7.5319	1.2753e+06	0.018952	7703	16405	31812	32478
n-n=1000-h=3-d=8-m=10.9	Feasible	(L)	3600.4	1.2056e+06	1.7367	1.2753e+06	0.017735	7703	16405	24109	26395
n-n=1000-h=3-d=8-m=10.9	Feasible	(P)	3600.3	1.2054e+06	1.1248	1.3309e+06	0.037538	7703	9702	17406	50979
n-n=1000-h=3-d=8-m=10.9	Feasible	(STM)	3600.1	1.2042e+06	8.6727	1.313e+06	0.040274	7703	16405	31812	11466
n-n=1000-h=3-d=8-m=10.10	Feasible	(U)	3600.1	1.3605e+06	0.43793	1.5118e+06	0.014695	7770	9770	17540	52488
n-n=1000-h=3-d=8-m=10.10	Feasible	(I)	3601.1	1.36e+06	6.505	1.4301e+06	0.0126	7770	16540	32080	17991
n-n=1000-h=3-d=8-m=10.10	Feasible	(L)	3600.6	1.3603e+06	2.6986	1.4301e+06	0.012103	7770	16540	24310	25621
n-n=1000-h=3-d=8-m=10.10	Feasible	(P)	3600.1	1.3604e+06	0.84487	1.4842e+06	0.028002	7770	9770	17540	51606
n-n=1000-h=3-d=8-m=10.10	Feasible	(STM)	3600.1	1.36e+06	5.5272	1.4728e+06	0.029725	7770	16540	32080	15906
n-n=1000-h=3-d=8-m=10.11	Feasible	(U)	3600.1	1.1259e+06	0.59791	1.2676e+06	0.021509	7631	9631	17262	37311
n-n=1000-h=3-d=8-m=10.11	Feasible	(I)	3600.5	1.1256e+06	2.5136	1.1958e+06	0.018416	7631	16262	31524	25092
n-n=1000-h=3-d=8-m=10.11	Feasible	(L)	3600.1	1.1256e+06	3.4705	1.1958e+06	0.018164	7631	16262	23893	21475
n-n=1000-h=3-d=8-m=10.11	Feasible	(P)	3600.1	1.1256e+06	1.5668	1.2476e+06	0.036125	7631	9631	17262	49097
n-n=1000-h=3-d=8-m=10.11	Feasible	(STM)	3600.1	1.1239e+06	5.4892	1.2336e+06	0.043437	7631	16262	31524	13162

All Instances - Part 3

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=1000-h=3-d=8-m=10.12	Feasible	(U)	3600.1	1.25e+06	0.45793	1.3918e+06	0.014379	7480	9479	16960	54870
n-n=1000-h=3-d=8-m=10.12	Feasible	(I)	3600.6	1.2498e+06	3.7034	1.3106e+06	0.012862	7480	15959	30920	20962
n-n=1000-h=3-d=8-m=10.12	Feasible	(L)	3600.8	1.2498e+06	3.3535	1.3106e+06	0.012134	7480	15959	23440	32160
n-n=1000-h=3-d=8-m=10.12	Feasible	(P)	3600.1	1.25e+06	0.97285	1.3677e+06	0.026579	7480	9479	16960	71069
n-n=1000-h=3-d=8-m=10.12	Feasible	(STM)	3600.3	1.2492e+06	7.4699	1.3503e+06	0.030293	7480	15959	30920	13167
n-n=1000-h=3-d=8-m=10.13	Feasible	(U)	3600	1.1462e+06	0.61891	1.302e+06	0.01974	7731	9731	17462	34460
n-n=1000-h=3-d=8-m=10.13	Feasible	(I)	3600.1	1.1461e+06	3.6574	1.2191e+06	0.016805	7731	16462	31924	20865
n-n=1000-h=3-d=8-m=10.13	Feasible	(L)	3600.6	1.1461e+06	3.6385	1.2191e+06	0.017251	7731	16462	24193	25901
n-n=1000-h=3-d=8-m=10.13	Feasible	(P)	3600.2	1.1458e+06	0.96585	1.2793e+06	0.0364	7731	9731	17462	67724
n-n=1000-h=3-d=8-m=10.13	Feasible	(STM)	3600.2	1.1453e+06	5.2982	1.2616e+06	0.041952	7731	16462	31924	14971
n-n=1000-h=3-d=8-m=10.14	Feasible	(U)	3600.1	1.3044e+06	0.72489	1.4556e+06	0.017079	7753	9753	17506	40941
n-n=1000-h=3-d=8-m=10.14	Feasible	(I)	3600.1	1.3046e+06	6.2801	1.3716e+06	0.014551	7753	16506	32012	16032
n-n=1000-h=3-d=8-m=10.14	Feasible	(L)	3600.5	1.3044e+06	3.6554	1.3716e+06	0.014598	7753	16506	24259	27676
n-n=1000-h=3-d=8-m=10.14	Feasible	(P)	3600.2	1.3043e+06	1.4598	1.4315e+06	0.03101	7753	9753	17506	52395
n-n=1000-h=3-d=8-m=10.14	Feasible	(STM)	3600.4	1.3042e+06	3.0395	1.4164e+06	0.034556	7753	16506	32012	21870
n-n=1000-h=3-d=8-m=10.15	Feasible	(U)	3600.2	1.2054e+06	0.55392	1.3489e+06	0.015398	7856	9856	17712	36794
n-n=1000-h=3-d=8-m=10.15	Feasible	(I)	3600.1	1.2051e+06	6.2481	1.2724e+06	0.013954	7856	16712	32424	14043
n-n=1000-h=3-d=8-m=10.15	Feasible	(L)	3600.2	1.2054e+06	2.8756	1.2724e+06	0.013268	7856	16712	24568	33116
n-n=1000-h=3-d=8-m=10.15	Feasible	(P)	3600.2	1.2054e+06	1.2308	1.3242e+06	0.029466	7856	9856	17712	107794
n-n=1000-h=3-d=8-m=10.15	Feasible	(STM)	3600.4	1.2031e+06	5.9741	1.3141e+06	0.035195	7856	16712	32424	18522
n-n=1000-h=3-d=8-m=10.16	Feasible	(U)	3600.3	1.1647e+06	0.55592	1.302e+06	0.017309	7601	9602	17202	45328
n-n=1000-h=3-d=8-m=10.16	Feasible	(I)	3600.1	1.1645e+06	5.8341	1.231e+06	0.014949	7601	16203	31404	18728
n-n=1000-h=3-d=8-m=10.16	Feasible	(L)	3600.3	1.164e+06	2.1997	1.231e+06	0.014519	7601	16203	23803	38187
n-n=1000-h=3-d=8-m=10.16	Feasible	(P)	3600.3	1.1645e+06	1.2298	1.2806e+06	0.031639	7601	9602	17202	51185
n-n=1000-h=3-d=8-m=10.16	Feasible	(STM)	3600.5	1.164e+06	5.2822	1.2674e+06	0.035389	7601	16203	31404	19588
n-n=1000-h=3-d=8-m=10.17	Feasible	(U)	3600.2	1.2825e+06	0.46093	1.4351e+06	0.020634	7664	9665	17328	37799
n-n=1000-h=3-d=8-m=10.17	Feasible	(I)	3600.6	1.282e+06	5.4822	1.3537e+06	0.018461	7664	16329	31656	23316
n-n=1000-h=3-d=8-m=10.17	Feasible	(L)	3600.2	1.2825e+06	1.7297	1.3537e+06	0.017565	7664	16329	23992	51533
n-n=1000-h=3-d=8-m=10.17	Feasible	(P)	3600.2	1.2826e+06	1.3498	1.4109e+06	0.037059	7664	9665	17328	69699
n-n=1000-h=3-d=8-m=10.17	Feasible	(STM)	3600.8	1.2819e+06	10.309	1.3929e+06	0.039114	7664	16329	31656	11616
n-n=1000-h=3-d=8-m=10.18	Feasible	(U)	3600.2	1.2261e+06	0.40294	1.376e+06	0.020061	7579	9579	17158	48670
n-n=1000-h=3-d=8-m=10.18	Feasible	(I)	3600.6	1.2258e+06	4.3403	1.2994e+06	0.016977	7579	16158	31316	22430
n-n=1000-h=3-d=8-m=10.18	Feasible	(L)	3600.4	1.2267e+06	1.6018	1.2994e+06	0.01584	7579	16158	23737	35411
n-n=1000-h=3-d=8-m=10.18	Feasible	(P)	3600.2	1.2267e+06	1.2188	1.3543e+06	0.034099	7579	9579	17158	76298
n-n=1000-h=3-d=8-m=10.18	Feasible	(STM)	3600.2	1.2203e+06	8.6177	1.339e+06	0.043491	7579	16158	31316	10945
n-n=1000-h=3-d=8-m=10.19	Feasible	(U)	3600.4	1.2231e+06	0.51292	1.3707e+06	0.017963	7605	9606	17210	38997
n-n=1000-h=3-d=8-m=10.19	Feasible	(I)	3600.1	1.2226e+06	5.8651	1.2896e+06	0.016138	7605	16211	31420	15614
n-n=1000-h=3-d=8-m=10.19	Feasible	(L)	3600.1	1.2225e+06	2.6156	1.2896e+06	0.015698	7605	16211	23815	34325
n-n=1000-h=3-d=8-m=10.19	Feasible	(P)	3600.2	1.2228e+06	1.3198	1.347e+06	0.032408	7605	9606	17210	53097
n-n=1000-h=3-d=8-m=10.19	Feasible	(STM)	3600.2	1.2223e+06	6.577	1.3282e+06	0.03394	7605	16211	31420	11766
n-n=1500-h=3-d=8-m=10.0	Feasible	(U)	3600.3	2.2567e+06	1.0628	2.5168e+06	0.019313	11531	14532	26062	27435
n-n=1500-h=3-d=8-m=10.0	Feasible	(I)	3601.9	2.2535e+06	12.906	2.38e+06	0.018633	11531	24563	47624	10808
n-n=1500-h=3-d=8-m=10.0	Feasible	(L)	3600.9	2.2562e+06	6.0461	2.38e+06	0.017482	11531	24563	36093	14197
n-n=1500-h=3-d=8-m=10.0	Feasible	(P)	3600.3	2.2559e+06	2.4236	2.4728e+06	0.035447	11531	14532	26062	29585
n-n=1500-h=3-d=8-m=10.0	Feasible	(STM)	3600.4	2.2544e+06	19.582	2.4497e+06	0.038442	11531	24563	47624	8207
n-n=1500-h=3-d=8-m=10.1	Feasible	(U)	3600.2	2.2343e+06	0.6369	2.5037e+06	0.019	11635	14635	26270	39586
n-n=1500-h=3-d=8-m=10.1	Feasible	(I)	3600.8	2.232e+06	9.6585	2.3569e+06	0.017408	11635	24770	48040	10071
n-n=1500-h=3-d=8-m=10.1	Feasible	(L)	3600.3	2.2312e+06	7.2999	2.3569e+06	0.017701	11635	24770	36405	13334
n-n=1500-h=3-d=8-m=10.1	Feasible	(P)	3600.2	2.2332e+06	2.9276	2.4558e+06	0.035309	11635	14635	26270	31566
n-n=1500-h=3-d=8-m=10.1	Feasible	(STM)	3600.3	2.2324e+06	12.478	2.4302e+06	0.038061	11635	24770	48040	11326
n-n=1500-h=3-d=8-m=10.2	Feasible	(U)	3600.1	2.5007e+06	0.52392	2.7634e+06	0.015637	11610	14610	26220	29834
n-n=1500-h=3-d=8-m=10.2	Feasible	(I)	3601.7	2.5002e+06	9.1176	2.6191e+06	0.013057	11610	24720	47940	12796
n-n=1500-h=3-d=8-m=10.2	Feasible	(L)	3600.7	2.5002e+06	4.5223	2.6191e+06	0.013073	11610	24720	36330	20886
n-n=1500-h=3-d=8-m=10.2	Feasible	(P)	3600.3	2.5005e+06	2.6876	2.7201e+06	0.030066	11610	14610	26220	29106
n-n=1500-h=3-d=8-m=10.2	Feasible	(STM)	3600.2	2.494e+06	15.151	2.6922e+06	0.032436	11610	24720	47940	8392
n-n=1500-h=3-d=8-m=10.3	Feasible	(U)	3600.2	2.3063e+06	0.90486	2.5778e+06	0.019607	11651	14652	26302	26295
n-n=1500-h=3-d=8-m=10.3	Feasible	(I)	3600.2	2.3017e+06	5.8141	2.4312e+06	0.01823	11651	24803	48104	13728
n-n=1500-h=3-d=8-m=10.3	Feasible	(L)	3600.2	2.3053e+06	5.4432	2.4312e+06	0.0164	11651	24803	36453	32365
n-n=1500-h=3-d=8-m=10.3	Feasible	(P)	3600.5	2.3055e+06	1.6598	2.5355e+06	0.03496	11651	14652	26302	31195
n-n=1500-h=3-d=8-m=10.3	Feasible	(STM)	3600.8	2.3041e+06	13.832	2.4989e+06	0.03711	11651	24803	48104	12263
n-n=1500-h=3-d=8-m=10.4	Feasible	(U)	3600.2	2.2662e+06	1.1058	2.5225e+06	0.017842	11603	14604	26206	24786
n-n=1500-h=3-d=8-m=10.4	Feasible	(I)	3600.1	2.2655e+06	11.157	2.3866e+06	0.015371	11603	24707	47912	21197
n-n=1500-h=3-d=8-m=10.4	Feasible	(L)	3601.1	2.2662e+06	6.328	2.3866e+06	0.014616	11603	24707	36309	21692
n-n=1500-h=3-d=8-m=10.4	Feasible	(P)	3600.2	2.2645e+06	2.2697	2.4831e+06	0.033904	11603	14604	26206	39226
n-n=1500-h=3-d=8-m=10.4	Feasible	(STM)	3601.1	2.2608e+06	15.446	2.4499e+06	0.038635	11603	24707	47912	6595
n-n=1500-h=3-d=8-m=10.5	Feasible	(U)	3600.1	2.4135e+06	0.82588	2.6769e+06	0.018448	11610	14610	26220	22344
n-n=1500-h=3-d=8-m=10.5	Feasible	(I)	3601.2	2.4121e+06	10.782	2.5334e+06	0.015936	11610	24720	47940	12396
n-n=1500-h=3-d=8-m=10.5	Feasible	(L)	3600.8	2.4109e+06	6.478	2.5334e+06	0.016282	11610	24720	36330	10686
n-n=1500-h=3-d=8-m=10.5	Feasible	(P)	3600.3	2.4141e+06	2.3087	2.6356e+06	0.030548	11610	14610	26220	40206
n-n=1500-h=3-d=8-m=10.5	Feasible	(STM)	3600.1	2.4114e+06	13.126	2.6039e+06	0.033667	11610	24720	47940	10455
n-n=1500-h=3-d=8-m=10.6	Feasible	(U)	3600.1	2.2278e+06	1.1308	2.4847e+06	0.019662	11569	14568	26138	23366
n-n=1500-h=3-d=8-m=10.6	Feasible	(I)	3601	2.2259e+06	10.84	2.3512e+06	0.017581	11569	24637	47776	9519
n-n=1500-h=3-d=8-m=10.6	Feasible	(L)	3600.7	2.2262e+06	5.8121	2.3512e+06	0.017315	11569	24637	36207	18510
n-n=1500-h=3-d=8-m=10.6	Feasible	(P)	3600.2	2.225e+06	3.5775	2.4438e+06	0.036066	11569	14568	26138	26441
n-n=1500-h=3-d=8-m=10.6	Feasible	(STM)	3600.3	2.2254e+06	13.333	2.4147e+06	0.037927	11569	24637	47776	7419
n-n=1500-h=3-d=8-m=10.7	Feasible	(U)	3600.2	2.4528e+06	0.60891	2.716e+06	0.017629	11542	14537	26084	32572
n-n=1500-h=3-d=8-m=10.7	Feasible	(I)	3601.1	2.4531e+06	10.592	2.5745e+06	0.014108	11542	24579	47668	23628
n-n=1500-h=3-d=8-m=10.7	Feasible	(L)	3601.3	2.4525e+06	4.1524	2.5745e+06	0.014629	11542	24579	36126	11906
n-n=1500-h=3-d=8-m=10.7	Feasible	(P)	3600.3	2.4500e+06	3.0355	2.6716e+06	0.031928	11542	14537	26084	42772
n-n=1500-h=3-d=8-m=10.7	Feasible	(STM)	3600.4	2.4459e+06	11.784	2.6487e+06	0.038028	11542	24579	47668	6628

All Instances - Part 4

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=1500-h=3-d=8-m=10.8	Feasible	(U)	3600.1	2.3096e+06	0.97785	2.5744e+06	0.01925	11601	14598	26202	23542
n-n=1500-h=3-d=8-m=10.8	Feasible	(I)	3600.8	2.3071e+06	9.8465	2.4331e+06	0.017828	11601	24699	47904	8479
n-n=1500-h=3-d=8-m=10.8	Feasible	(L)	3600.2	2.309e+06	7.7388	2.4331e+06	0.016849	11601	24699	36303	20020
n-n=1500-h=3-d=8-m=10.8	Feasible	(P)	3600.1	2.3082e+06	3.4575	2.5348e+06	0.035956	11601	14598	26202	27625
n-n=1500-h=3-d=8-m=10.8	Feasible	(STM)	3600.2	2.305e+06	15.319	2.5001e+06	0.038049	11601	24699	47904	11717
n-n=1500-h=3-d=8-m=10.9	Feasible	(U)	3600.2	2.3301e+06	0.82987	2.5923e+06	0.016499	11469	14470	25938	30574
n-n=1500-h=3-d=8-m=10.9	Feasible	(I)	3600.9	2.3302e+06	10.143	2.4503e+06	0.014055	11469	24439	47376	16986
n-n=1500-h=3-d=8-m=10.9	Feasible	(L)	3600.2	2.3302e+06	5.9141	2.4503e+06	0.013705	11469	24439	35907	18699
n-n=1500-h=3-d=8-m=10.9	Feasible	(P)	3600.1	2.3296e+06	3.3525	2.5491e+06	0.031903	11469	14470	25938	27100
n-n=1500-h=3-d=8-m=10.9	Feasible	(STM)	3600.8	2.3295e+06	13.183	2.5222e+06	0.035249	11469	24439	47376	10496
n-n=1500-h=3-d=8-m=10.10	Feasible	(U)	3600.3	2.2695e+06	0.80388	2.5381e+06	0.021213	11407	14408	25814	33718
n-n=1500-h=3-d=8-m=10.10	Feasible	(I)	3600.1	2.2674e+06	9.5576	2.3968e+06	0.018305	11407	24315	47128	14000
n-n=1500-h=3-d=8-m=10.10	Feasible	(L)	3600.5	2.268e+06	5.0422	2.3968e+06	0.017859	11407	24315	35721	15257
n-n=1500-h=3-d=8-m=10.10	Feasible	(P)	3600.2	2.2683e+06	3.3695	2.4991e+06	0.037096	11407	14408	25814	24917
n-n=1500-h=3-d=8-m=10.10	Feasible	(STM)	3601	2.2648e+06	7.6268	2.4654e+06	0.040461	11407	24315	47128	14065
n-n=1500-h=3-d=8-m=10.11	Feasible	(U)	3600.3	2.2719e+06	1.0738	2.5348e+06	0.019467	11679	14680	26358	39739
n-n=1500-h=3-d=8-m=10.11	Feasible	(I)	3602.1	2.264e+06	15.709	2.3929e+06	0.020543	11679	24859	48216	8221
n-n=1500-h=3-d=8-m=10.11	Feasible	(L)	3600.4	2.2708e+06	6.809	2.3929e+06	0.017335	11679	24859	36537	13262
n-n=1500-h=3-d=8-m=10.11	Feasible	(P)	3600.1	2.2693e+06	2.6176	2.4947e+06	0.035671	11679	14680	26358	48138
n-n=1500-h=3-d=8-m=10.11	Feasible	(STM)	3600.2	2.2666e+06	19.363	2.4614e+06	0.03791	11679	24859	48216	10981
n-n=1500-h=3-d=8-m=10.12	Feasible	(U)	3600.4	2.3188e+06	0.93186	2.5878e+06	0.019016	11680	14680	26360	25501
n-n=1500-h=3-d=8-m=10.12	Feasible	(I)	3601.2	2.3181e+06	9.0576	2.4385e+06	0.016173	11680	24860	48220	10371
n-n=1500-h=3-d=8-m=10.12	Feasible	(L)	3600.7	2.3179e+06	4.4953	2.4385e+06	0.015752	11680	24860	36540	14971
n-n=1500-h=3-d=8-m=10.12	Feasible	(P)	3600.4	2.3177e+06	1.6777	2.5442e+06	0.033462	11680	14680	26360	44901
n-n=1500-h=3-d=8-m=10.12	Feasible	(STM)	3600.6	2.3114e+06	7.3519	2.5146e+06	0.038576	11680	24860	48220	11270
n-n=1500-h=3-d=8-m=10.13	Feasible	(U)	3600.4	2.2944e+06	0.6539	2.5722e+06	0.020239	11679	14679	26358	38838
n-n=1500-h=3-d=8-m=10.13	Feasible	(I)	3600.1	2.2939e+06	11.97	2.4260e+06	0.017861	11679	24858	48216	19726
n-n=1500-h=3-d=8-m=10.13	Feasible	(L)	3600.7	2.2922e+06	6.0111	2.4260e+06	0.018409	11679	24858	36537	18921
n-n=1500-h=3-d=8-m=10.13	Feasible	(P)	3600.1	2.2908e+06	2.2277	2.5291e+06	0.038253	11679	14679	26358	44057
n-n=1500-h=3-d=8-m=10.13	Feasible	(STM)	3600.1	2.2885e+06	12.574	2.498e+06	0.042965	11679	24858	48216	11478
n-n=1500-h=3-d=8-m=10.14	Feasible	(U)	3600.9	2.2850e+06	0.76288	2.5449e+06	0.019345	11640	14639	26280	37660
n-n=1500-h=3-d=8-m=10.14	Feasible	(I)	3601.8	2.2787e+06	12.476	2.4089e+06	0.019204	11640	24779	48060	8800
n-n=1500-h=3-d=8-m=10.14	Feasible	(L)	3600.6	2.2847e+06	6.1421	2.4089e+06	0.016147	11640	24779	36420	13100
n-n=1500-h=3-d=8-m=10.14	Feasible	(P)	3600.5	2.2841e+06	2.2377	2.5037e+06	0.034399	11640	14639	26280	66560
n-n=1500-h=3-d=8-m=10.14	Feasible	(STM)	3600.3	2.2846e+06	12.027	2.4782e+06	0.035828	11640	24779	48060	10516
n-n=1500-h=3-d=8-m=10.15	Feasible	(U)	3600.2	2.5243e+06	1.0189	2.7931e+06	0.016206	11332	14333	25664	32147
n-n=1500-h=3-d=8-m=10.15	Feasible	(I)	3600.5	2.5235e+06	5.1532	2.6553e+06	0.013072	11332	24165	46828	25799
n-n=1500-h=3-d=8-m=10.15	Feasible	(L)	3601.2	2.5241e+06	6.529	2.6553e+06	0.013177	11332	24165	35496	14287
n-n=1500-h=3-d=8-m=10.15	Feasible	(P)	3600.3	2.5244e+06	1.9767	2.752e+06	0.029278	11332	14333	25664	40908
n-n=1500-h=3-d=8-m=10.15	Feasible	(STM)	3600.1	2.5226e+06	11.65	2.7263e+06	0.033516	11332	24165	46828	11115
n-n=1500-h=3-d=8-m=10.16	Feasible	(U)	3600.1	2.2442e+06	0.95785	2.5281e+06	0.024564	11424	14423	25848	22672
n-n=1500-h=3-d=8-m=10.16	Feasible	(I)	3600.6	2.2381e+06	11.907	2.3812e+06	0.023904	11424	24347	47196	10724
n-n=1500-h=3-d=8-m=10.16	Feasible	(L)	3600.1	2.2471e+06	7.4949	2.3812e+06	0.020125	11424	24347	35772	10575
n-n=1500-h=3-d=8-m=10.16	Feasible	(P)	3600.3	2.2475e+06	1.1768	2.4834e+06	0.038801	11424	14423	25848	48372
n-n=1500-h=3-d=8-m=10.16	Feasible	(STM)	3600.2	2.2465e+06	11.819	2.4568e+06	0.041978	11424	24347	47196	11573
n-n=1500-h=3-d=8-m=10.17	Feasible	(U)	3600.4	2.3032e+06	1.1348	2.5733e+06	0.018904	11455	14455	25910	27928
n-n=1500-h=3-d=8-m=10.17	Feasible	(I)	3600.2	2.3029e+06	9.3456	2.429e+06	0.015341	11455	24410	47320	15109
n-n=1500-h=3-d=8-m=10.17	Feasible	(L)	3600.9	2.3028e+06	7.1499	2.429e+06	0.015275	11455	24410	35865	13421
n-n=1500-h=3-d=8-m=10.17	Feasible	(P)	3601.2	2.303e+06	2.1867	2.528e+06	0.033972	11455	14455	25910	40526
n-n=1500-h=3-d=8-m=10.17	Feasible	(STM)	3600.5	2.3014e+06	16.323	2.4953e+06	0.037037	11455	24410	47320	10496
n-n=1500-h=3-d=8-m=10.18	Feasible	(U)	3600.7	2.2217e+06	1.0268	2.4818e+06	0.019305	11584	14585	26168	24169
n-n=1500-h=3-d=8-m=10.18	Feasible	(I)	3601.1	2.2207e+06	8.8027	2.3464e+06	0.016555	11584	24669	47836	13516
n-n=1500-h=3-d=8-m=10.18	Feasible	(L)	3600.1	2.2218e+06	4.3663	2.3464e+06	0.015541	11584	24669	36252	19659
n-n=1500-h=3-d=8-m=10.18	Feasible	(P)	3600.3	2.2206e+06	1.1248	2.4438e+06	0.035212	11584	14585	26168	40829
n-n=1500-h=3-d=8-m=10.18	Feasible	(STM)	3600.2	2.2163e+06	17.057	2.4158e+06	0.039598	11584	24669	47836	7796
n-n=1500-h=3-d=8-m=10.19	Feasible	(U)	3600.5	2.23e+06	0.96285	2.4932e+06	0.019977	11734	14733	26468	29527
n-n=1500-h=3-d=8-m=10.19	Feasible	(I)	3600.8	2.2289e+06	12.893	2.3555e+06	0.017055	11734	24967	48436	7539
n-n=1500-h=3-d=8-m=10.19	Feasible	(L)	3601.6	2.2283e+06	6.295	2.3555e+06	0.017383	11734	24967	36702	17425
n-n=1500-h=3-d=8-m=10.19	Feasible	(P)	3600.1	2.23e+06	2.7076	2.454e+06	0.036219	11734	14733	26468	24927
n-n=1500-h=3-d=8-m=10.19	Feasible	(STM)	3600.9	2.2273e+06	17.293	2.4264e+06	0.039381	11734	24967	48436	11039
n-n=2000-h=3-d=8-m=10.0	Feasible	(U)	3600.1	3.3851e+06	1.1388	3.7879e+06	0.019098	15437	19437	34874	17656
n-n=2000-h=3-d=8-m=10.0	Feasible	(I)	3602.6	3.3863e+06	20.766	3.5727e+06	0.016407	15437	32874	63748	6018
n-n=2000-h=3-d=8-m=10.0	Feasible	(L)	3600.6	3.3841e+06	7.7698	3.5727e+06	0.016129	15437	32874	48311	28021
n-n=2000-h=3-d=8-m=10.0	Feasible	(P)	3600.3	3.3843e+06	4.7083	3.7278e+06	0.034874	15437	19437	34874	22406
n-n=2000-h=3-d=8-m=10.0	Feasible	(STM)	3601.1	3.379e+06	22.587	3.6860e+06	0.040572	15437	32874	63748	8218
n-n=2000-h=3-d=8-m=10.1	Feasible	(U)	3600.3	3.454e+06	1.2608	3.8892e+06	0.022647	15576	19570	35152	25228
n-n=2000-h=3-d=8-m=10.1	Feasible	(I)	3601.9	3.4419e+06	18.886	3.6552e+06	0.022178	15576	33146	64304	5411
n-n=2000-h=3-d=8-m=10.1	Feasible	(L)	3600.1	3.4548e+06	10.562	3.6552e+06	0.018299	15576	33146	48728	8375
n-n=2000-h=3-d=8-m=10.1	Feasible	(P)	3600.8	3.4561e+06	3.3765	3.8227e+06	0.037468	15576	19570	35152	30527
n-n=2000-h=3-d=8-m=10.1	Feasible	(STM)	3600.9	3.4405e+06	21.668	3.7703e+06	0.044319	15576	33146	64304	8011
n-n=2000-h=3-d=8-m=10.2	Feasible	(U)	3600.4	3.358e+06	1.9877	3.7552e+06	0.021109	15651	19652	35302	17190
n-n=2000-h=3-d=8-m=10.2	Feasible	(I)	3600.4	3.3552e+06	24.536	3.5389e+06	0.018176	15651	33303	64604	8883
n-n=2000-h=3-d=8-m=10.2	Feasible	(L)	3601.1	3.3573e+06	11.62	3.5389e+06	0.017464	15651	33303	48953	10512
n-n=2000-h=3-d=8-m=10.2	Feasible	(P)	3600.3	3.3562e+06	4.3383	3.6881e+06	0.036423	15651	19652	35302	29230
n-n=2000-h=3-d=8-m=10.2	Feasible	(STM)	3600.2	3.3544e+06	14.095	3.6426e+06	0.038649	15651	33303	64604	14962
n-n=2000-h=3-d=8-m=10.3	Feasible	(U)	3600.2	3.6235e+06	1.4998	4.0554e+06	0.022131	15610	19610	35220	5403
n-n=2000-h=3-d=8-m=10.3	Feasible	(I)	3601.8	3.6152e+06	21.102	3.8329e+06	0.021551	15610	33220	64440	4151
n-n=2000-h=3-d=8-m=10.3	Feasible	(L)	3603.3	3.6182e+06	10.005	3.8329e+06	0.020297	15610	33220	48830	8381
n-n=2000-h=3-d=8-m=10.3	Feasible	(P)	3600.8	3.3154e+06	4.1314	3.9875e+06	0.13581	15610	19610	35220	18801
n-n=2000-h=3-d=8-m=10.3	Feasible	(STM)	3601.5	3.6079e+06	23.047	3.9418e+06	0.045075	15610	33220	64440	4651

All Instances - Part 5

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=2000-h=3-d=8-m=10.4	Feasible	(U)	3600.1	3.6497e+06	1.6338	4.0698e+06	0.019219	15398	19392	34796	17692
n-n=2000-h=3-d=8-m=10.4	Feasible	(I)	3603	3.6452e+06	23.854	3.8497e+06	0.017873	15398	32790	63592	5393
n-n=2000-h=3-d=8-m=10.4	Feasible	(L)	3601.3	3.645e+06	11.757	3.8497e+06	0.017581	15398	32790	48194	10395
n-n=2000-h=3-d=8-m=10.4	Feasible	(P)	3600.2	3.6484e+06	3.7644	4.0021e+06	0.035803	15398	19392	34796	30799
n-n=2000-h=3-d=8-m=10.4	Feasible	(STM)	3600.2	3.6358e+06	32.565	3.9525e+06	0.038582	15398	32790	63592	5101
n-n=2000-h=3-d=8-m=10.5	Feasible	(U)	3600.1	3.4977e+06	1.4668	3.9194e+06	0.02146	15594	19595	35188	17494
n-n=2000-h=3-d=8-m=10.5	Feasible	(I)	3601.7	3.491e+06	15.142	3.6996e+06	0.019844	15594	33189	64376	8991
n-n=2000-h=3-d=8-m=10.5	Feasible	(L)	3600.5	3.4983e+06	10.532	3.6996e+06	0.017323	15594	33189	48782	12797
n-n=2000-h=3-d=8-m=10.5	Feasible	(P)	3600.2	3.493e+06	2.5456	3.8542e+06	0.03935	15594	19595	35188	21064
n-n=2000-h=3-d=8-m=10.5	Feasible	(STM)	3601.3	3.481e+06	20.722	3.8093e+06	0.043092	15594	33189	64376	7791
n-n=2000-h=3-d=8-m=10.6	Feasible	(U)	3600.2	3.4614e+06	0.69789	3.8748e+06	0.020566	15289	19289	34578	15407
n-n=2000-h=3-d=8-m=10.6	Feasible	(I)	3600.8	3.46e+06	8.6057	3.6567e+06	0.017378	15289	32578	63156	5405
n-n=2000-h=3-d=8-m=10.6	Feasible	(L)	3600.3	3.4608e+06	9.1016	3.6567e+06	0.016772	15289	32578	47867	8606
n-n=2000-h=3-d=8-m=10.6	Feasible	(P)	3600.5	3.4561e+06	4.7263	3.8105e+06	0.038353	15289	19289	34578	16838
n-n=2000-h=3-d=8-m=10.6	Feasible	(STM)	3601.2	3.4445e+06	34.413	3.766e+06	0.042766	15289	32578	63156	6579
n-n=2000-h=3-d=8-m=10.7	Feasible	(U)	3600.5	3.3839e+06	1.8797	3.7842e+06	0.020125	15468	19468	34936	15721
n-n=2000-h=3-d=8-m=10.7	Feasible	(I)	3601.1	3.3853e+06	17.867	3.5719e+06	0.017045	15468	32936	63872	4889
n-n=2000-h=3-d=8-m=10.7	Feasible	(L)	3601.5	3.3821e+06	12.597	3.5719e+06	0.017631	15468	32936	48404	8501
n-n=2000-h=3-d=8-m=10.7	Feasible	(P)	3600.3	3.384e+06	5.1272	3.7209e+06	0.036362	15468	19468	34936	18319
n-n=2000-h=3-d=8-m=10.7	Feasible	(STM)	3601.5	3.3446e+06	29.335	3.6828e+06	0.051401	15468	32936	63872	4429
n-n=2000-h=3-d=8-m=10.8	Feasible	(U)	3600.1	3.5797e+06	1.5158	3.9686e+06	0.017678	15769	19770	35538	12517
n-n=2000-h=3-d=8-m=10.8	Feasible	(I)	3600.2	3.5772e+06	21.585	3.7570e+06	0.015821	15769	33539	65076	4605
n-n=2000-h=3-d=8-m=10.8	Feasible	(L)	3600.2	3.5769e+06	8.2267	3.7570e+06	0.015209	15769	33539	49307	11141
n-n=2000-h=3-d=8-m=10.8	Feasible	(P)	3600.3	3.5766e+06	4.8643	3.907e+06	0.033474	15769	19770	35538	24793
n-n=2000-h=3-d=8-m=10.8	Feasible	(STM)	3601.4	3.5583e+06	27.97	3.8616e+06	0.039933	15769	33539	65076	4231
n-n=2000-h=3-d=8-m=10.9	Feasible	(U)	3600.1	3.6044e+06	1.5428	3.9992e+06	0.018128	15476	19472	34952	21937
n-n=2000-h=3-d=8-m=10.9	Feasible	(I)	3602.2	3.6032e+06	13.853	3.7815e+06	0.015651	15476	32948	63904	5278
n-n=2000-h=3-d=8-m=10.9	Feasible	(L)	3602.7	3.6018e+06	13.614	3.7815e+06	0.015572	15476	32948	48428	23982
n-n=2000-h=3-d=8-m=10.9	Feasible	(P)	3600.3	3.5997e+06	2.8796	3.9362e+06	0.033431	15476	19472	34952	27984
n-n=2000-h=3-d=8-m=10.9	Feasible	(STM)	3601	3.5901e+06	23.639	3.8913e+06	0.038495	15476	32948	63904	7278
n-n=2000-h=3-d=8-m=10.10	Feasible	(U)	3600.3	3.5821e+06	1.1688	3.9798e+06	0.018965	15507	19508	35014	15203
n-n=2000-h=3-d=8-m=10.10	Feasible	(I)	3601.5	3.5784e+06	13.81	3.7696e+06	0.016856	15507	33015	64028	9194
n-n=2000-h=3-d=8-m=10.10	Feasible	(L)	3601.3	3.5786e+06	13.767	3.7696e+06	0.016294	15507	33015	48521	8367
n-n=2000-h=3-d=8-m=10.10	Feasible	(P)	3600.2	3.324e+06	2.6556	3.9165e+06	0.11353	15507	19508	35014	22914
n-n=2000-h=3-d=8-m=10.10	Feasible	(STM)	3601.6	3.5571e+06	28.205	3.8724e+06	0.042956	15507	33015	64028	4594
n-n=2000-h=3-d=8-m=10.11	Feasible	(U)	3600.5	3.4485e+06	1.9227	3.8652e+06	0.022244	15439	19438	34878	14611
n-n=2000-h=3-d=8-m=10.11	Feasible	(I)	3600.4	3.4423e+06	15.483	3.6491e+06	0.020141	15439	32877	63756	6628
n-n=2000-h=3-d=8-m=10.11	Feasible	(L)	3601.2	3.4446e+06	10.047	3.6491e+06	0.019204	15439	32877	48317	6730
n-n=2000-h=3-d=8-m=10.11	Feasible	(P)	3600.3	3.0538e+06	4.5323	3.7991e+06	0.1713	15439	19438	34878	14542
n-n=2000-h=3-d=8-m=10.11	Feasible	(STM)	3600.3	3.4341e+06	23.894	3.7642e+06	0.045519	15439	32877	63756	6569
n-n=2000-h=3-d=8-m=10.12	Feasible	(U)	3600.1	3.387e+06	1.3748	3.7932e+06	0.021618	15465	19463	34930	21231
n-n=2000-h=3-d=8-m=10.12	Feasible	(I)	3600.4	3.3841e+06	21.841	3.5786e+06	0.0194	15465	32928	63860	3941
n-n=2000-h=3-d=8-m=10.12	Feasible	(L)	3600.2	3.3868e+06	12.287	3.5786e+06	0.018058	15465	32928	48395	7058
n-n=2000-h=3-d=8-m=10.12	Feasible	(P)	3600.6	3.3848e+06	3.1775	3.734e+06	0.037472	15465	19463	34930	25609
n-n=2000-h=3-d=8-m=10.12	Feasible	(STM)	3601.5	3.3764e+06	29.66	3.6842e+06	0.043683	15465	32928	63860	5309
n-n=2000-h=3-d=8-m=10.13	Feasible	(U)	3600.3	3.4283e+06	1.7237	3.8275e+06	0.019809	15295	19293	34590	14974
n-n=2000-h=3-d=8-m=10.13	Feasible	(I)	3600.6	3.4278e+06	15.135	3.613e+06	0.017209	15295	32588	63180	5296
n-n=2000-h=3-d=8-m=10.13	Feasible	(L)	3601.2	3.4222e+06	10.675	3.613e+06	0.018598	15295	32588	47885	9084
n-n=2000-h=3-d=8-m=10.13	Feasible	(P)	3601.3	3.4255e+06	2.6056	3.7642e+06	0.035583	15295	19293	34590	6526
n-n=2000-h=3-d=8-m=10.13	Feasible	(STM)	3600.6	3.4177e+06	24.456	3.7188e+06	0.039924	15295	32588	63180	6098
n-n=2000-h=3-d=8-m=10.14	Feasible	(U)	3600.3	3.6439e+06	1.3148	4.0579e+06	0.020007	15515	19513	35030	22423
n-n=2000-h=3-d=8-m=10.14	Feasible	(I)	3600.7	2.6379e+06	20.281	3.838e+06	0.40428	15515	33028	64060	9299
n-n=2000-h=3-d=8-m=10.14	Feasible	(L)	3601.7	3.6449e+06	11.17	3.838e+06	0.016177	15515	33028	48545	8004
n-n=2000-h=3-d=8-m=10.14	Feasible	(P)	3600.1	3.6404e+06	2.6656	3.9923e+06	0.03603	15515	19513	35030	15427
n-n=2000-h=3-d=8-m=10.14	Feasible	(STM)	3601.5	0	27.42	3.946e+06	inf	15515	33028	64060	3699
n-n=2000-h=3-d=8-m=10.15	Feasible	(U)	3600.4	3.7648e+06	1.6447	4.206e+06	0.022071	15382	19379	34764	12573
n-n=2000-h=3-d=8-m=10.15	Feasible	(I)	3601.5	3.7638e+06	19.016	3.9716e+06	0.019026	15382	32761	63528	8295
n-n=2000-h=3-d=8-m=10.15	Feasible	(L)	3600.9	3.7635e+06	14.028	3.9716e+06	0.018735	15382	32761	48146	7912
n-n=2000-h=3-d=8-m=10.15	Feasible	(P)	3600.2	3.7641e+06	5.1552	4.1306e+06	0.038426	15382	19379	34764	17990
n-n=2000-h=3-d=8-m=10.15	Feasible	(STM)	3601.5	3.7519e+06	26.172	4.0758e+06	0.042246	15382	32761	63528	7995
n-n=2000-h=3-d=8-m=10.16	Feasible	(U)	3600.2	3.9041e+06	1.7837	4.3161e+06	0.017003	15452	19452	34904	14778
n-n=2000-h=3-d=8-m=10.16	Feasible	(I)	3601.2	3.9042e+06	14.884	4.0949e+06	0.014521	15452	32904	63808	7273
n-n=2000-h=3-d=8-m=10.16	Feasible	(L)	3601.2	3.9018e+06	11.56	4.0949e+06	0.014987	15452	32904	48356	7503
n-n=2000-h=3-d=8-m=10.16	Feasible	(P)	3600.3	3.8999e+06	3.0565	4.2442e+06	0.032185	15452	19452	34904	20912
n-n=2000-h=3-d=8-m=10.16	Feasible	(STM)	3600.9	3.8957e+06	19.099	4.2094e+06	0.035284	15452	32904	63808	8673
n-n=2000-h=3-d=8-m=10.17	Feasible	(U)	3600.3	3.4562e+06	1.2798	3.8748e+06	0.021172	15540	19541	35080	24267
n-n=2000-h=3-d=8-m=10.17	Feasible	(I)	3600.1	3.4483e+06	21.141	3.6496e+06	0.020013	15540	33081	64160	12161
n-n=2000-h=3-d=8-m=10.17	Feasible	(L)	3602	3.4533e+06	7.5199	3.6496e+06	0.018511	15540	33081	48620	10597
n-n=2000-h=3-d=8-m=10.17	Feasible	(P)	3600.2	3.4521e+06	4.6383	3.8102e+06	0.038423	15540	19541	35080	16866
n-n=2000-h=3-d=8-m=10.17	Feasible	(STM)	3600.3	3.4422e+06	20.355	3.7657e+06	0.043256	15540	33081	64160	8176
n-n=2000-h=3-d=8-m=10.18	Feasible	(U)	3600.3	3.3827e+06	1.2178	3.8041e+06	0.023553	15608	19609	35216	18497
n-n=2000-h=3-d=8-m=10.18	Feasible	(I)	3600.2	3.3832e+06	21.834	3.5881e+06	0.020344	15608	33217	64432	6925
n-n=2000-h=3-d=8-m=10.18	Feasible	(L)	3600.9	3.359e+06	10.082	3.5881e+06	0.027362	15608	33217	48824	9927
n-n=2000-h=3-d=8-m=10.18	Feasible	(P)	3600.1	3.3812e+06	4.6453	3.7383e+06	0.040594	15608	19609	35216	14580
n-n=2000-h=3-d=8-m=10.18	Feasible	(STM)	3601.5	3.3511e+06	32.58	3.702e+06	0.052158	15608	33217	64432	5335
n-n=2000-h=3-d=8-m=10.19	Feasible	(U)	3600.4	3.5917e+06	1.3818	3.9868e+06	0.017062	15613	19610	35226	22107
n-n=2000-h=3-d=8-m=10.19	Feasible	(I)	3600.2	3.5875e+06	20.131	3.7722e+06	0.015542	15613	33223	64452	4605
n-n=2000-h=3-d=8-m=10.19	Feasible	(L)	3601.4	3.59e+06	8.6907	3.7722e+06	0.014294	15613	33223	48839	10793
n-n=2000-h=3-d=8-m=10.19	Feasible	(P)	3600.2	3.586e+06	3.3805	3.9238e+06	0.033247	15613	19610	35226	23318
n-n=2000-h=3-d=8-m=10.19	Feasible	(STM)	3600.4	3.5813e+06	21.476	3.8863e+06	0.037125	15613	33223	64452	6976

All Instances - Part 6

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=2500-h=3-d=8-m=10.0	Feasible	(U)	3600.1	4.9545e+06	2.3876	5.5594e+06	0.023561	19513	24511	44026	11070
n-n=2500-h=3-d=8-m=10.0	Feasible	(I)	3602.2	4.9546e+06	33.886	5.2427e+06	0.019653	19513	41524	80552	1537
n-n=2500-h=3-d=8-m=10.0	Feasible	(L)	3601.3	4.9684e+06	12.352	5.2427e+06	0.016836	19513	41524	61039	7144
n-n=2500-h=3-d=8-m=10.0	Feasible	(P)	3601	4.942e+06	8.0818	5.4594e+06	0.042618	19513	24511	44026	10754
n-n=2500-h=3-d=8-m=10.0	Feasible	(STM)	3600.6	4.9447e+06	17.978	5.3939e+06	0.043665	19513	41524	80552	7037
n-n=2500-h=3-d=8-m=10.1	Feasible	(U)	3600.2	5.1573e+06	3.0715	5.7259e+06	0.019682	19301	24301	43602	10641
n-n=2500-h=3-d=8-m=10.1	Feasible	(I)	3601.6	5.1412e+06	23.847	5.4253e+06	0.019732	19301	41102	79704	4492
n-n=2500-h=3-d=8-m=10.1	Feasible	(L)	3602.2	5.1563e+06	13.53	5.4253e+06	0.01649	19301	41102	60403	8171
n-n=2500-h=3-d=8-m=10.1	Feasible	(P)	3600.8	5.1233e+06	7.4699	5.6376e+06	0.041096	19301	24301	43602	10460
n-n=2500-h=3-d=8-m=10.1	Feasible	(STM)	3600.4	672670	29.188	5.5763e+06	6.9455	19301	41102	79704	1349
n-n=2500-h=3-d=8-m=10.2	Feasible	(U)	3600.5	4.6772e+06	1.8747	5.2841e+06	0.025378	19691	24690	44382	10963
n-n=2500-h=3-d=8-m=10.2	Feasible	(I)	3602.2	4.6728e+06	18.618	4.9653e+06	0.023136	19691	41881	81264	3601
n-n=2500-h=3-d=8-m=10.2	Feasible	(L)	3601.1	4.6784e+06	12.143	4.9653e+06	0.021669	19691	41881	61573	4092
n-n=2500-h=3-d=8-m=10.2	Feasible	(P)	3600.8	4.6787e+06	5.5322	5.1925e+06	0.041449	19691	24690	44382	20223
n-n=2500-h=3-d=8-m=10.2	Feasible	(STM)	3600.6	1.0747e+06	35.604	5.1328e+06	3.5571	19691	41881	81264	2300
n-n=2500-h=3-d=8-m=10.3	Feasible	(U)	3601.1	4.4505e+06	2.5076	5.638e+06	0.16146	19708	24708	44416	10061
n-n=2500-h=3-d=8-m=10.3	Feasible	(I)	3601.9	5.0630e+06	23.827	5.3387e+06	0.017929	19708	41916	81332	1571
n-n=2500-h=3-d=8-m=10.3	Feasible	(L)	3600.3	5.0756e+06	17.234	5.3387e+06	0.015506	19708	41916	61624	4582
n-n=2500-h=3-d=8-m=10.3	Feasible	(P)	3602.8	2.7564e+06	7.9068	5.5521e+06	0.90402	19708	24708	44416	10061
n-n=2500-h=3-d=8-m=10.3	Feasible	(STM)	3600.6	4.9804e+06	22.182	5.4849e+06	0.054563	19708	41916	81332	3468
n-n=2500-h=3-d=8-m=10.4	Feasible	(U)	3600.2	5.3777e+06	2.1377	5.9316e+06	0.017603	19790	24788	44580	11409
n-n=2500-h=3-d=8-m=10.4	Feasible	(I)	3600.3	5.3762e+06	27.111	5.6362e+06	0.015001	19790	42078	81660	4178
n-n=2500-h=3-d=8-m=10.4	Feasible	(L)	3601	5.3671e+06	11.067	5.6362e+06	0.016146	19790	42078	61870	10084
n-n=2500-h=3-d=8-m=10.4	Feasible	(P)	3600.1	5.373e+06	6.366	5.8471e+06	0.033021	19790	24788	44580	12574
n-n=2500-h=3-d=8-m=10.4	Feasible	(STM)	3601.2	0	26.521	5.7846e+06	inf	19790	42078	81660	3574
n-n=2500-h=3-d=8-m=10.5	Feasible	(U)	3600.3	4.7996e+06	1.8077	5.4064e+06	0.022216	19580	24580	44160	17374
n-n=2500-h=3-d=8-m=10.5	Feasible	(I)	3601.8	4.7994e+06	24.675	5.0835e+06	0.019401	19580	41660	80820	6496
n-n=2500-h=3-d=8-m=10.5	Feasible	(L)	3601.9	4.8004e+06	19.141	5.0835e+06	0.018934	19580	41660	61240	8276
n-n=2500-h=3-d=8-m=10.5	Feasible	(P)	3600.5	4.799e+06	8.2757	5.3117e+06	0.039488	19580	24580	44160	12600
n-n=2500-h=3-d=8-m=10.5	Feasible	(STM)	3602.7	4.1261e+06	35.846	5.2405e+06	0.21226	19580	41660	80820	2296
n-n=2500-h=3-d=8-m=10.6	Feasible	(U)	3600.6	5.1811e+06	1.4418	5.792e+06	0.022981	19441	24439	43882	9893
n-n=2500-h=3-d=8-m=10.6	Feasible	(I)	3601.3	5.1742e+06	18.248	5.4741e+06	0.020599	19441	41380	80264	4094
n-n=2500-h=3-d=8-m=10.6	Feasible	(L)	3601.6	5.185e+06	16.244	5.4741e+06	0.01828	19441	41380	60823	6396
n-n=2500-h=3-d=8-m=10.6	Feasible	(P)	3600.2	5.1799e+06	6.0531	5.7042e+06	0.039239	19441	24439	43882	18473
n-n=2500-h=3-d=8-m=10.6	Feasible	(STM)	3601.2	0	31.323	5.6351e+06	inf	19441	41380	80264	3505
n-n=2500-h=3-d=8-m=10.7	Feasible	(U)	3600.5	5.0659e+06	1.4238	5.6511e+06	0.021254	19381	24381	43762	10369
n-n=2500-h=3-d=8-m=10.7	Feasible	(I)	3601	5.0721e+06	25.828	5.339e+06	0.016136	19381	41262	80024	5888
n-n=2500-h=3-d=8-m=10.7	Feasible	(L)	3601.4	5.0697e+06	17.369	5.339e+06	0.016859	19381	41262	60643	5266
n-n=2500-h=3-d=8-m=10.7	Feasible	(P)	3600.7	5.067e+06	6.1881	5.5593e+06	0.036666	19381	24381	43762	12669
n-n=2500-h=3-d=8-m=10.7	Feasible	(STM)	3601.2	0	36.327	5.4912e+06	inf	19381	41262	80024	2687
n-n=2500-h=3-d=8-m=10.8	Feasible	(U)	3600.2	5.0809e+06	2.3117	5.6651e+06	0.022675	19537	24537	44074	10640
n-n=2500-h=3-d=8-m=10.8	Feasible	(I)	3600.5	5.0862e+06	26.831	5.3645e+06	0.018451	19537	41574	80648	4538
n-n=2500-h=3-d=8-m=10.8	Feasible	(L)	3600.2	5.0882e+06	13.796	5.3645e+06	0.017068	19537	41574	61111	14821
n-n=2500-h=3-d=8-m=10.8	Feasible	(P)	3601	5.0685e+06	8.3567	5.5774e+06	0.040123	19537	24537	44074	10313
n-n=2500-h=3-d=8-m=10.8	Feasible	(STM)	3601.5	0	35.626	5.5161e+06	inf	19537	41574	80648	2808
n-n=2500-h=3-d=8-m=10.9	Feasible	(U)	3600.1	5.0099e+06	2.6396	5.586e+06	0.02082	19674	24675	44348	11741
n-n=2500-h=3-d=8-m=10.9	Feasible	(I)	3600.9	4.995e+06	33.94	5.2831e+06	0.020494	19674	41849	81196	1351
n-n=2500-h=3-d=8-m=10.9	Feasible	(L)	3600.7	5.0145e+06	14.992	5.2831e+06	0.016563	19674	41849	61522	7903
n-n=2500-h=3-d=8-m=10.9	Feasible	(P)	3600.2	4.0042e+06	7.4589	5.4983e+06	0.29653	19674	24675	44348	11482
n-n=2500-h=3-d=8-m=10.9	Feasible	(STM)	3600.8	625005	27.088	5.4306e+06	7.3275	19674	41849	81196	4736
n-n=2500-h=3-d=8-m=10.10	Feasible	(U)	3600.4	5.5132e+06	2.2577	6.0789e+06	0.019037	19281	24278	43562	9977
n-n=2500-h=3-d=8-m=10.10	Feasible	(I)	3601.7	5.5067e+06	24.419	5.7746e+06	0.017375	19281	41059	79624	4804
n-n=2500-h=3-d=8-m=10.10	Feasible	(L)	3602.2	5.5166e+06	11.817	5.7746e+06	0.015295	19281	41059	60343	15005
n-n=2500-h=3-d=8-m=10.10	Feasible	(P)	3600.2	5.0813e+06	5.5872	5.9931e+06	0.1198	19281	24278	43562	17812
n-n=2500-h=3-d=8-m=10.10	Feasible	(STM)	3600.7	952268	30.711	5.926e+06	4.9896	19281	41059	79624	2286
n-n=2500-h=3-d=8-m=10.11	Feasible	(U)	3600.1	4.9999e+06	1.7487	5.5711e+06	0.022008	19621	24620	44242	15036
n-n=2500-h=3-d=8-m=10.11	Feasible	(I)	3602	4.9771e+06	30.268	5.2785e+06	0.02286	19621	41741	80984	2626
n-n=2500-h=3-d=8-m=10.11	Feasible	(L)	3600.4	4.9847e+06	12.017	5.2785e+06	0.021226	19621	41741	61363	10804
n-n=2500-h=3-d=8-m=10.11	Feasible	(P)	3600.4	4.994e+06	5.2592	5.4862e+06	0.03907	19621	24620	44242	11468
n-n=2500-h=3-d=8-m=10.11	Feasible	(STM)	3600.2	1.4507e+06	19.036	5.4261e+06	2.5807	19621	41741	80984	3146
n-n=2500-h=3-d=8-m=10.12	Feasible	(U)	3600.3	4.8336e+06	1.6068	5.4112e+06	0.022658	19471	24470	43942	12633
n-n=2500-h=3-d=8-m=10.12	Feasible	(I)	3602.5	4.8214e+06	29.943	5.1169e+06	0.021545	19471	41441	80384	2101
n-n=2500-h=3-d=8-m=10.12	Feasible	(L)	3601.6	4.8228e+06	17.126	5.1169e+06	0.021422	19471	41441	60913	3812
n-n=2500-h=3-d=8-m=10.12	Feasible	(P)	3600.2	4.8286e+06	5.4572	5.329e+06	0.040567	19471	24470	43942	21682
n-n=2500-h=3-d=8-m=10.12	Feasible	(STM)	3600.5	980438	40.571	5.2648e+06	4.1286	19471	41441	80384	2200
n-n=2500-h=3-d=8-m=10.13	Feasible	(U)	3600.4	4.7877e+06	1.7427	5.3983e+06	0.025923	19486	24483	43972	29471
n-n=2500-h=3-d=8-m=10.13	Feasible	(I)	3600.2	4.7839e+06	31.825	5.0859e+06	0.022856	19486	41469	80444	3241
n-n=2500-h=3-d=8-m=10.13	Feasible	(L)	3600.2	4.7904e+06	12.939	5.0859e+06	0.021202	19486	41469	60958	9694
n-n=2500-h=3-d=8-m=10.13	Feasible	(P)	3600.2	4.1504e+06	7.7038	5.3092e+06	0.20315	19486	24483	43972	12139
n-n=2500-h=3-d=8-m=10.13	Feasible	(STM)	3600.4	355821	42.17	5.2450e+06	13.085	19486	41469	80444	3004
n-n=2500-h=3-d=8-m=10.14	Feasible	(U)	3600.3	4.9058e+06	1.0518	5.4902e+06	0.022083	19479	24473	43958	12654
n-n=2500-h=3-d=8-m=10.14	Feasible	(I)	3602.2	4.912e+06	20.775	5.185e+06	0.017248	19479	41452	80416	4904
n-n=2500-h=3-d=8-m=10.14	Feasible	(L)	3601.2	4.8851e+06	13.796	5.185e+06	0.022615	19479	41452	60937	7105
n-n=2500-h=3-d=8-m=10.14	Feasible	(P)	3601.4	4.8932e+06	7.7908	5.4038e+06	0.040417	19479	24473	43958	11362
n-n=2500-h=3-d=8-m=10.14	Feasible	(STM)	3601	0	40.348	5.3437e+06	inf	19479	41452	80416	2504
n-n=2500-h=3-d=8-m=10.15	Feasible	(U)	3600.4	5.8272e+06	1.6567	6.3973e+06	0.016735	19639	24632	44278	17806
n-n=2500-h=3-d=8-m=10.15	Feasible	(I)	3603	9295.8	22.272	6.093e+06	634.68	19639	41771	81056	3593
n-n=2500-h=3-d=8-m=10.15	Feasible	(L)	3602.2	5.8212e+06	10.296	6.093e+06	0.014906	19639	41771	61417	5994
n-n=2500-h=3-d=8-m=10.15	Feasible	(P)	3600.3	4.9237e+06	6.8949	6.3062e+06	0.21847	19639	24632	44278	12156
n-n=2500-h=3-d=8-m=10.15	Feasible	(STM)	3601.2	640594	30.093	6.2453e+06	8.3845	19639	41771	81056	5493

All Instances - Part 7

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
n-n=2500-h=3-d=8-m=10.16	Feasible	(U)	3600.1	4.9238e+06	1.6078	5.5057e+06	0.021935	19197	24198	43394	15219
n-n=2500-h=3-d=8-m=10.16	Feasible	(I)	3601.5	4.9233e+06	22.966	5.2072e+06	0.018104	19197	40895	79288	5289
n-n=2500-h=3-d=8-m=10.16	Feasible	(L)	3600.8	4.9241e+06	17.029	5.2072e+06	0.018127	19197	40895	60091	5691
n-n=2500-h=3-d=8-m=10.16	Feasible	(P)	3600.5	4.9146e+06	7.2919	5.4186e+06	0.039558	19197	24198	43394	11538
n-n=2500-h=3-d=8-m=10.16	Feasible	(STM)	3600.2	976052	35.003	5.3638e+06	4.2546	19197	40895	79288	1798
n-n=2500-h=3-d=8-m=10.17	Feasible	(U)	3600.4	4.8427e+06	1.7297	5.417e+06	0.018879	19459	24458	43918	15897
n-n=2500-h=3-d=8-m=10.17	Feasible	(I)	3600.3	3.5146e+06	22.378	5.098e+06	0.39896	19459	41417	80336	7329
n-n=2500-h=3-d=8-m=10.17	Feasible	(L)	3602.7	4.8285e+06	19.905	5.098e+06	0.018028	19459	41417	60877	8590
n-n=2500-h=3-d=8-m=10.17	Feasible	(P)	3600.2	4.8347e+06	7.5849	5.3195e+06	0.036116	19459	24458	43918	13397
n-n=2500-h=3-d=8-m=10.17	Feasible	(STM)	3600.5	4.8231e+06	30.259	5.2659e+06	0.040926	19459	41417	80336	8269
n-n=2500-h=3-d=8-m=10.18	Feasible	(U)	3600.7	4.894e+06	1.4178	5.5059e+06	0.030919	19399	24399	43798	11423
n-n=2500-h=3-d=8-m=10.18	Feasible	(I)	3600.2	4.9315e+06	23.71	5.2162e+06	0.019904	19399	41298	80096	11188
n-n=2500-h=3-d=8-m=10.18	Feasible	(L)	3601.6	4.9357e+06	16.053	5.2162e+06	0.019213	19399	41298	60697	4918
n-n=2500-h=3-d=8-m=10.18	Feasible	(P)	3600.2	4.267e+06	5.4262	5.4222e+06	0.20175	19399	24399	43798	16809
n-n=2500-h=3-d=8-m=10.18	Feasible	(STM)	3601.3	0	32.101	5.3674e+06	inf	19399	41298	80096	4015
n-n=2500-h=3-d=8-m=10.19	Feasible	(U)	3600.1	5.1681e+06	0.85687	5.7289e+06	0.019503	19650	24649	44300	16127
n-n=2500-h=3-d=8-m=10.19	Feasible	(I)	3601.1	5.1573e+06	24.003	5.4305e+06	0.018421	19650	41799	81100	5101
n-n=2500-h=3-d=8-m=10.19	Feasible	(L)	3603	5.1531e+06	17.452	5.4305e+06	0.019553	19650	41799	61450	6015
n-n=2500-h=3-d=8-m=10.19	Feasible	(P)	3600.7	5.1466e+06	6.538	5.6462e+06	0.038643	19650	24649	44300	10061
n-n=2500-h=3-d=8-m=10.19	Feasible	(STM)	3600.7	1.064e+06	40.677	5.5643e+06	4.022	19650	41799	81100	2383
n-n=3000-h=3-d=8-m=10.0	Feasible	(U)	3600.4	6.7029e+06	2.4206	7.4716e+06	0.022205	23442	29440	52884	8622
n-n=3000-h=3-d=8-m=10.0	Feasible	(I)	3600.3	6.7000e+06	30.865	7.0676e+06	0.018866	23442	49882	96768	4411
n-n=3000-h=3-d=8-m=10.0	Feasible	(L)	3600.8	6.6974e+06	17.549	7.0676e+06	0.019002	23442	49882	73326	8309
n-n=3000-h=3-d=8-m=10.0	Feasible	(P)	3600.7	6.6951e+06	11.219	7.3552e+06	0.038636	23442	29440	52884	16470
n-n=3000-h=3-d=8-m=10.0	Feasible	(STM)	3601.3	0	47.491	7.2573e+06	inf	23442	49882	96768	711
n-n=3000-h=3-d=8-m=10.1	Feasible	(U)	3600.4	6.1498e+06	2.8896	6.939e+06	0.029534	23554	29552	53108	10470
n-n=3000-h=3-d=8-m=10.1	Feasible	(I)	3600.2	17145	44.929	6.5447e+06	366.95	23554	50106	97216	661
n-n=3000-h=3-d=8-m=10.1	Feasible	(L)	3600.3	6.1692e+06	17.611	6.5447e+06	0.022316	23554	50106	73662	4808
n-n=3000-h=3-d=8-m=10.1	Feasible	(P)	3600.2	4.4908e+06	8.0248	6.8274e+06	0.433	23554	29552	53108	10766
n-n=3000-h=3-d=8-m=10.1	Feasible	(STM)	3601.9	0	44.4	6.7331e+06	inf	23554	50106	97216	488
n-n=3000-h=3-d=8-m=10.2	Feasible	(U)	3600.1	7.545e+06	2.1527	8.3428e+06	0.021055	23427	29420	52854	10900
n-n=3000-h=3-d=8-m=10.2	Feasible	(I)	3602.4	7.5512e+06	27.809	7.9294e+06	0.017315	23427	49847	96708	2596
n-n=3000-h=3-d=8-m=10.2	Feasible	(L)	3600.4	7.5554e+06	13.501	7.9294e+06	0.016858	23427	49847	73281	4689
n-n=3000-h=3-d=8-m=10.2	Feasible	(P)	3600.5	5.8155e+06	9.4006	8.2174e+06	0.34363	23427	29420	52854	11390
n-n=3000-h=3-d=8-m=10.2	Feasible	(STM)	3600.3	1.5603e+06	37.2	8.1377e+06	4.0125	23427	49847	96708	2736
n-n=3000-h=3-d=8-m=10.3	Feasible	(U)	3600.1	6.0648e+06	1.6907	6.8394e+06	0.026683	23259	29259	52518	12246
n-n=3000-h=3-d=8-m=10.3	Feasible	(I)	3600.3	6005.2	30.181	6.4495e+06	1031.8	23259	49518	96036	715
n-n=3000-h=3-d=8-m=10.3	Feasible	(L)	3600.9	6.0852e+06	16.422	6.4495e+06	0.018825	23259	49518	72777	7486
n-n=3000-h=3-d=8-m=10.3	Feasible	(P)	3600.2	4.4055e+06	10.04	6.7272e+06	0.43776	23259	29259	52518	11129
n-n=3000-h=3-d=8-m=10.3	Feasible	(STM)	3601.4	0	38.365	6.6432e+06	inf	23259	49518	96036	4005
n-n=3000-h=3-d=8-m=10.4	Feasible	(U)	3600.4	6.635e+06	3.4585	7.3832e+06	0.022858	23602	29602	53204	7826
n-n=3000-h=3-d=8-m=10.4	Feasible	(I)	3600.3	6.6403e+06	28.297	6.9946e+06	0.018184	23602	50204	97408	3710
n-n=3000-h=3-d=8-m=10.4	Feasible	(L)	3600.8	6.6395e+06	16.804	6.9946e+06	0.018203	23602	50204	73806	6101
n-n=3000-h=3-d=8-m=10.4	Feasible	(P)	3600.3	4.7352e+06	12.003	7.27e+06	0.45442	23602	29602	53204	9242
n-n=3000-h=3-d=8-m=10.4	Feasible	(STM)	3600.1	0	39.283	7.1851e+06	inf	23602	50204	97408	4202
n-n=3000-h=3-d=8-m=10.5	Feasible	(U)	3600.5	6.5256e+06	3.4215	7.5186e+06	0.054725	23371	29368	52742	10725
n-n=3000-h=3-d=8-m=10.5	Feasible	(I)	3600.8	11112	43.172	7.1125e+06	616.51	23371	49739	96484	1173
n-n=3000-h=3-d=8-m=10.5	Feasible	(L)	3601.6	6.6686e+06	18.208	7.1125e+06	0.028922	23371	49739	73113	3903
n-n=3000-h=3-d=8-m=10.5	Feasible	(P)	3600.4	6.7339e+06	7.5179	7.3972e+06	0.038636	23371	29368	52742	12425
n-n=3000-h=3-d=8-m=10.5	Feasible	(STM)	3600.3	1.1555e+06	42.314	7.3242e+06	5.0642	23371	49739	96484	2738
n-n=3000-h=3-d=8-m=10.6	Feasible	(U)	3600.1	6.3279e+06	2.2617	7.2546e+06	0.047919	23234	29233	52468	11626
n-n=3000-h=3-d=8-m=10.6	Feasible	(I)	3600.8	12903	20.363	6.8498e+06	510.99	23234	49467	95936	3089
n-n=3000-h=3-d=8-m=10.6	Feasible	(L)	3600.5	6.4407e+06	22.066	6.8498e+06	0.025682	23234	49467	72702	3094
n-n=3000-h=3-d=8-m=10.6	Feasible	(P)	3600.2	4.9521e+06	9.8205	7.137e+06	0.36021	23234	29233	52468	8507
n-n=3000-h=3-d=8-m=10.6	Feasible	(STM)	3602.6	0	51.49	7.0562e+06	inf	23234	49467	95936	591
n-n=3000-h=3-d=8-m=10.7	Feasible	(U)	3600.1	6.2053e+06	2.2567	6.9657e+06	0.024125	23173	29173	52346	16901
n-n=3000-h=3-d=8-m=10.7	Feasible	(I)	3602.6	6.1847e+06	39.084	6.5796e+06	0.024123	23173	49346	95692	2974
n-n=3000-h=3-d=8-m=10.7	Feasible	(L)	3601.9	6.175e+06	17.433	6.5796e+06	0.025745	23173	49346	72519	3601
n-n=3000-h=3-d=8-m=10.7	Feasible	(P)	3600.5	6.1546e+06	6.576	6.856e+06	0.051016	23173	29173	52346	10480
n-n=3000-h=3-d=8-m=10.7	Feasible	(STM)	3600.2	1.2934e+06	38.631	6.7802e+06	4.0085	23173	49346	95692	3359
n-n=3000-h=3-d=8-m=10.8	Feasible	(U)	3601.2	6.7325e+06	3.1365	7.4988e+06	0.022174	23243	29244	52486	8196
n-n=3000-h=3-d=8-m=10.8	Feasible	(I)	3602.5	3913.2	36.263	7.1043e+06	1751.7	23243	49487	95972	1205
n-n=3000-h=3-d=8-m=10.8	Feasible	(L)	3600.2	6.7489e+06	17	7.1043e+06	0.015928	23243	49487	72729	7157
n-n=3000-h=3-d=8-m=10.8	Feasible	(P)	3600.2	4.8808e+06	9.2626	7.3799e+06	0.43219	23243	29244	52486	9774
n-n=3000-h=3-d=8-m=10.8	Feasible	(STM)	3600.6	1.4252e+06	38.635	7.3025e+06	3.9101	23243	49487	95972	3071
n-n=3000-h=3-d=8-m=10.9	Feasible	(U)	3601.3	6.3439e+06	2.8586	7.0922e+06	0.023493	23676	29675	53352	7513
n-n=3000-h=3-d=8-m=10.9	Feasible	(I)	3603.5	13472	41.708	6.7041e+06	479.01	23676	50351	97704	1001
n-n=3000-h=3-d=8-m=10.9	Feasible	(L)	3601.7	6.3407e+06	18.466	6.7041e+06	0.019709	23676	50351	74028	1207
n-n=3000-h=3-d=8-m=10.9	Feasible	(P)	3600.5	6.3283e+06	10.748	6.9828e+06	0.041794	23676	29675	53352	8386
n-n=3000-h=3-d=8-m=10.9	Feasible	(STM)	3600.2	1.1453e+06	55.931	6.9e+06	4.7588	23676	50351	97704	1924
n-n=3000-h=3-d=8-m=10.10	Feasible	(U)	3600.1	6.7382e+06	3.0305	7.6742e+06	0.045297	23447	29446	52894	7318
n-n=3000-h=3-d=8-m=10.10	Feasible	(I)	3694.3	2.721e+06	33.252	7.2593e+06	1.5799	23447	49893	96788	1126
n-n=3000-h=3-d=8-m=10.10	Feasible	(L)	3600.5	13348	15.44	7.2593e+06	524.84	23447	49893	73341	4819
n-n=3000-h=3-d=8-m=10.10	Feasible	(P)	3600.1	4.5113e+06	8.2867	7.5524e+06	0.58376	23447	29446	52894	10477
n-n=3000-h=3-d=8-m=10.10	Feasible	(STM)	3601.2	0	43.552	7.4656e+06	inf	23447	49893	96788	587
n-n=3000-h=3-d=8-m=10.11	Feasible	(U)	3601.4	6.1377e+06	2.9596	6.9145e+06	0.026889	23271	29272	52542	7985
n-n=3000-h=3-d=8-m=10.11	Feasible	(I)	3600.4	6.138e+06	30.03	6.5257e+06	0.023208	23271	49543	96084	4162
n-n=3000-h=3-d=8-m=10.11	Feasible	(L)	3600.4	6.1275e+06	23.763	6.5257e+06	0.024865	23271	49543	72813	3143
n-n=3000-h=3-d=8-m=10.11	Feasible	(P)	3600.2	3.7418e+06	10.143	6.7972e+06	0.71261	23271	29272	52542	10277
n-n=3000-h=3-d=8-m=10.11	Feasible	(STM)	3601.7	4034.4	40.328	6.7328e+06	1591.1	23271	49543	96084	698

Table with Means and Standard Deviations

group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
n-n=500-h=3-d=8-m=10	(U)	0	20	3600.1	0.0402	0.17462	0.038874	72918	13191	0.014072	0.0036198	0
n-n=500-h=3-d=8-m=10	(I)	0	20	3600.2	0.12204	1.5936	0.34538	51473	16139	0.012427	0.0035087	0
n-n=500-h=3-d=8-m=10	(L)	0	20	3600.2	0.083933	0.96915	0.24544	62270	12430	0.011997	0.0033095	0
n-n=500-h=3-d=8-m=10	(P)	0	20	3600.1	0.052307	0.42024	0.075723	1.3089e+05	27158	0.02609	0.0056735	0
n-n=500-h=3-d=8-m=10	(STM)	0	20	3600.2	0.064829	2.1465	0.51078	40874	7584.5	0.031024	0.0061427	0
n-n=1000-h=3-d=8-m=10	(U)	0	20	3600.2	0.12684	0.50057	0.088337	46070	8648.6	0.017892	0.002118	0.098691
n-n=1000-h=3-d=8-m=10	(I)	0	20	3600.6	0.40624	5.4018	1.3838	20404	5095.9	0.015551	0.0019515	0.0393
n-n=1000-h=3-d=8-m=10	(L)	0	20	3600.4	0.23864	2.94	0.73682	31273	7757.8	0.015237	0.0018874	0.039535
n-n=1000-h=3-d=8-m=10	(P)	0	20	3600.2	0.10455	1.2542	0.24114	64514	20797	0.032521	0.0030485	0.065203
n-n=1000-h=3-d=8-m=10	(STM)	0	20	3600.3	0.17418	6.3368	1.7238	14733	3477.7	0.036334	0.0038803	0.04989
n-n=1500-h=3-d=8-m=10	(U)	0	20	3600.3	0.21474	0.89676	0.17977	29612	5701.7	0.019056	0.0018519	0.094197
n-n=1500-h=3-d=8-m=10	(I)	0	20	3600.9	0.60364	10.386	2.3235	13671	5153	0.017011	0.002533	0.037187
n-n=1500-h=3-d=8-m=10	(L)	0	20	3600.7	0.41534	6.0035	1.0356	16659	4904.1	0.016253	0.0017733	0.037317
n-n=1500-h=3-d=8-m=10	(P)	0	20	3600.3	0.23508	2.4501	0.69667	37448	10237	0.034423	0.0025298	0.060758
n-n=1500-h=3-d=8-m=10	(STM)	0	20	3600.4	0.31302	13.816	3.1634	10191	1954.8	0.037743	0.0025928	0.04625
n-n=2000-h=3-d=8-m=10	(U)	0	20	3600.3	0.13577	1.4718	0.30416	17345	4558.8	0.020283	0.0018524	0.094514
n-n=2000-h=3-d=8-m=10	(I)	0	20	3601.1	0.84718	18.488	3.9287	6632.1	2136.8	0.037463	0.084178	0.036873
n-n=2000-h=3-d=8-m=10	(L)	0	20	3601.2	0.79794	10.781	1.8793	10834	5309.2	0.017725	0.0026731	0.037241
n-n=2000-h=3-d=8-m=10	(P)	0	20	3600.4	0.28822	3.8487	0.9072	20972	6037	0.051907	0.038281	0.060342
n-n=2000-h=3-d=8-m=10	(STM)	0	20	3601	0.50449	25.168	4.9985	6733.8	2421.3	Inf	NaN	0.046294
n-n=2500-h=3-d=8-m=10	(U)	0	20	3600.4	0.24248	1.864	0.53139	13520	4447.3	0.028866	0.030576	0.092117
n-n=2500-h=3-d=8-m=10	(I)	0	20	3601.4	0.81388	25.469	4.4169	4396.1	2232.6	31.772	138.32	0.036245
n-n=2500-h=3-d=8-m=10	(L)	0	20	3601.4	0.78904	14.815	2.7344	7718.1	3069.3	0.018297	0.0022872	0.036375
n-n=2500-h=3-d=8-m=10	(P)	0	20	3600.6	0.61656	6.8612	1.0314	13402	3460.2	0.12459	0.19498	0.058816
n-n=2500-h=3-d=8-m=10	(STM)	0	20	3600.9	0.56876	31.932	6.791	3442.9	1707.2	Inf	NaN	0.044429
n-n=3000-h=3-d=8-m=10	(U)	0	20	3600.6	0.49302	2.7195	0.54934	9261	2349.3	0.030576	0.011432	0.092772
n-n=3000-h=3-d=8-m=10	(I)	0	20	3605.9	20.321	33.214	6.7674	1963.2	1247.2	442.77	670.93	0.036412
n-n=3000-h=3-d=8-m=10	(L)	0	20	3602.1	4.9852	18.335	3.381	5008.2	2035.6	26.262	114.38	0.036574
n-n=3000-h=3-d=8-m=10	(P)	0	20	3600.4	0.28637	8.7954	1.903	11546	3917.7	0.27545	0.21835	0.058621
n-n=3000-h=3-d=8-m=10	(STM)	0	20	3600.8	0.69137	42.925	8.1347	2031.1	1351.1	Inf	NaN	0.045111

3 Popularity Model

All Instances - Part 1

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=500-e=4000-q=200-d=0.25.0	Feasible	(U)	3600	10682	0.14698	12567	0.039669	4000	4951	9000	12162
p-n=500-e=4000-q=200-d=0.25.0	Feasible	(I)	3600.2	10665	2.9056	11896	0.054163	4000	8451	16500	7972
p-n=500-e=4000-q=200-d=0.25.0	Feasible	(L)	3600.2	10673	1.5248	11896	0.039966	4000	8451	12500	8391
p-n=500-e=4000-q=200-d=0.25.0	Feasible	(P)	3600.2	10686	0.39594	12491	0.062195	4000	4951	9000	72852
p-n=500-e=4000-q=200-d=0.25.0	Feasible	(STM)	3600.2	10582	1.0988	12497	0.10481	4000	8451	16500	14176
p-n=500-e=4000-q=200-d=0.25.1	Feasible	(U)	3600	10932	0.12798	12610	0.025634	4000	4943	9000	13328
p-n=500-e=4000-q=200-d=0.25.1	Feasible	(I)	3600.2	10767	2.1997	11879	0.048877	4000	8443	16500	9370
p-n=500-e=4000-q=200-d=0.25.1	Feasible	(L)	3600.1	10934	1.7017	11879	0.025331	4000	8443	12500	8969
p-n=500-e=4000-q=200-d=0.25.1	Feasible	(P)	3600.1	10941	0.28496	12551	0.046877	4000	4943	9000	59199
p-n=500-e=4000-q=200-d=0.25.1	Feasible	(STM)	3600.2	10819	1.9267	12511	0.083932	4000	8443	16500	7921
p-n=500-e=4000-q=200-d=0.25.2	Feasible	(U)	3600.1	10561	0.16598	12432	0.043361	4000	4948	9000	10614
p-n=500-e=4000-q=200-d=0.25.2	Feasible	(I)	3600.3	10584	3.0175	11738	0.041888	4000	8448	16500	7727
p-n=500-e=4000-q=200-d=0.25.2	Feasible	(L)	3600.2	10609	1.3668	11738	0.037617	4000	8448	12500	11404
p-n=500-e=4000-q=200-d=0.25.2	Feasible	(P)	3600.1	10620	0.32895	12364	0.057146	4000	4948	9000	67204
p-n=500-e=4000-q=200-d=0.25.2	Feasible	(STM)	3600.4	10483	2.9486	12328	0.10399	4000	8448	16500	6804
p-n=500-e=4000-q=200-d=0.25.3	Feasible	(U)	3600.1	10598	0.14198	12268	0.025576	4000	4939	9000	17101
p-n=500-e=4000-q=200-d=0.25.3	Feasible	(I)	3600.2	10571	2.0527	11569	0.029298	4000	8439	16500	6964
p-n=500-e=4000-q=200-d=0.25.3	Feasible	(L)	3600	10590	1.4078	11569	0.027491	4000	8439	12500	7040
p-n=500-e=4000-q=200-d=0.25.3	Feasible	(P)	3600.1	10593	0.41394	12193	0.053645	4000	4939	9000	43595
p-n=500-e=4000-q=200-d=0.25.3	Feasible	(STM)	3600.5	10017	2.8056	12243	0.13905	4000	8439	16500	7695
p-n=500-e=4000-q=200-d=0.25.4	Feasible	(U)	3600.1	10810	0.13498	12447	0.017332	4000	4940	9000	12587
p-n=500-e=4000-q=200-d=0.25.4	Feasible	(I)	3600.1	10800	2.3886	11806	0.032501	4000	8440	16500	5873
p-n=500-e=4000-q=200-d=0.25.4	Feasible	(L)	3600.3	10810	1.2808	11806	0.014643	4000	8440	12500	6048
p-n=500-e=4000-q=200-d=0.25.4	Feasible	(P)	3600.3	10809	0.55892	12391	0.034413	4000	4940	9000	36696
p-n=500-e=4000-q=200-d=0.25.4	Feasible	(STM)	3600.1	10705	2.6386	12414	0.078707	4000	8440	16500	6916
p-n=500-e=4000-q=200-d=0.25.5	Feasible	(U)	3600.1	10539	0.21997	12348	0.034596	4000	4943	9000	9836
p-n=500-e=4000-q=200-d=0.25.5	Feasible	(I)	3600.1	10489	2.9775	11733	0.050724	4000	8443	16500	5283
p-n=500-e=4000-q=200-d=0.25.5	Feasible	(L)	3600.3	10558	1.2398	11733	0.035	4000	8443	12500	8599
p-n=500-e=4000-q=200-d=0.25.5	Feasible	(P)	3600.3	10559	0.49992	12277	0.049737	4000	4943	9000	51499
p-n=500-e=4000-q=200-d=0.25.5	Feasible	(STM)	3600.4	10163	3.2465	12250	0.12746	4000	8443	16500	5299
p-n=500-e=4000-q=200-d=0.25.6	Feasible	(U)	3600.1	10520	0.16797	12237	0.030563	4000	4933	9000	11000
p-n=500-e=4000-q=200-d=0.25.6	Feasible	(I)	3600.3	10500	1.7657	11603	0.040305	4000	8433	16500	8089
p-n=500-e=4000-q=200-d=0.25.6	Feasible	(L)	3600.4	10516	1.4278	11603	0.034114	4000	8433	12500	10241
p-n=500-e=4000-q=200-d=0.25.6	Feasible	(P)	3600.1	10521	0.34995	12173	0.053571	4000	4933	9000	48051
p-n=500-e=4000-q=200-d=0.25.6	Feasible	(STM)	3600.3	10431	1.8157	12179	0.090441	4000	8433	16500	8389
p-n=500-e=4000-q=200-d=0.25.7	Feasible	(U)	3600.2	10452	0.13098	12233	0.037682	4000	4950	9000	14451
p-n=500-e=4000-q=200-d=0.25.7	Feasible	(I)	3600.4	10476	2.2946	11606	0.050909	4000	8450	16500	11871
p-n=500-e=4000-q=200-d=0.25.7	Feasible	(L)	3600.1	10478	1.0069	11606	0.034347	4000	8450	12500	17939
p-n=500-e=4000-q=200-d=0.25.7	Feasible	(P)	3600.2	10475	0.42994	12175	0.060366	4000	4950	9000	68051
p-n=500-e=4000-q=200-d=0.25.7	Feasible	(STM)	3600.4	10271	2.2517	12214	0.10855	4000	8450	16500	9206
p-n=500-e=4000-q=200-d=0.25.8	Feasible	(U)	3600.1	10301	0.17097	12134	0.030754	4000	4931	9000	10736
p-n=500-e=4000-q=200-d=0.25.8	Feasible	(I)	3600.2	10286	1.7187	11470	0.041572	4000	8431	16500	7168
p-n=500-e=4000-q=200-d=0.25.8	Feasible	(L)	3600.2	10309	1.3568	11470	0.036321	4000	8431	12500	9571
p-n=500-e=4000-q=200-d=0.25.8	Feasible	(P)	3600.2	10301	0.51292	12062	0.058125	4000	4931	9000	51661
p-n=500-e=4000-q=200-d=0.25.8	Feasible	(STM)	3600.3	10187	1.8887	12051	0.10221	4000	8431	16500	8187
p-n=500-e=4000-q=200-d=0.25.9	Feasible	(U)	3600.2	10199	0.093985	12207	0.053457	4000	4941	9000	10467
p-n=500-e=4000-q=200-d=0.25.9	Feasible	(I)	3600.4	10232	3.3455	11500	0.054566	4000	8441	16500	8101
p-n=500-e=4000-q=200-d=0.25.9	Feasible	(L)	3600.3	10215	1.6827	11500	0.053713	4000	8441	12500	9297
p-n=500-e=4000-q=200-d=0.25.9	Feasible	(P)	3600.1	10221	0.22397	12141	0.078307	4000	4941	9000	69697
p-n=500-e=4000-q=200-d=0.25.9	Feasible	(STM)	3600.4	10027	2.9026	12144	0.13041	4000	8441	16500	6397
p-n=500-e=4000-q=200-d=0.25.10	Feasible	(U)	3600.1	10915	0.15298	12646	0.03238	4000	4923	9000	13057
p-n=500-e=4000-q=200-d=0.25.10	Feasible	(I)	3600.2	10807	3.0545	12026	0.052096	4000	8423	16500	6927
p-n=500-e=4000-q=200-d=0.25.10	Feasible	(L)	3600.3	10933	1.4798	12026	0.03224	4000	8423	12500	11379
p-n=500-e=4000-q=200-d=0.25.10	Feasible	(P)	3600.2	10912	0.47693	12589	0.054078	4000	4923	9000	49479
p-n=500-e=4000-q=200-d=0.25.10	Feasible	(STM)	3600.5	10633	2.7286	12579	0.11085	4000	8423	16500	4779
p-n=500-e=4000-q=200-d=0.25.11	Feasible	(U)	3600.1	10110	0.17697	11842	0.040206	4000	4944	9000	11622
p-n=500-e=4000-q=200-d=0.25.11	Feasible	(I)	3600.3	10093	2.7636	11204	0.047178	4000	8444	16500	5700
p-n=500-e=4000-q=200-d=0.25.11	Feasible	(L)	3600.1	10114	1.7527	11204	0.03495	4000	8444	12500	9069
p-n=500-e=4000-q=200-d=0.25.11	Feasible	(P)	3600.2	10066	0.45593	11777	0.068285	4000	4944	9000	39200
p-n=500-e=4000-q=200-d=0.25.11	Feasible	(STM)	3600.2	9986.1	1.1208	11780	0.10288	4000	8444	16500	5628
p-n=500-e=4000-q=200-d=0.25.12	Feasible	(U)	3600.1	10432	0.089987	12333	0.046982	4000	4934	9000	10690
p-n=500-e=4000-q=200-d=0.25.12	Feasible	(I)	3600.1	10457	2.4776	11650	0.04946	4000	8434	16500	8398
p-n=500-e=4000-q=200-d=0.25.12	Feasible	(L)	3600.2	10443	1.9867	11650	0.041344	4000	8434	12500	11964
p-n=500-e=4000-q=200-d=0.25.12	Feasible	(P)	3600.3	10448	0.45793	12265	0.07373	4000	4934	9000	57990
p-n=500-e=4000-q=200-d=0.25.12	Feasible	(STM)	3600.1	10096	2.3296	12287	0.13815	4000	8434	16500	7786
p-n=500-e=4000-q=200-d=0.25.13	Feasible	(U)	3600.1	10948	0.18297	12556	0.022795	4000	4946	9000	14604
p-n=500-e=4000-q=200-d=0.25.13	Feasible	(I)	3600.2	10941	1.8867	11896	0.028169	4000	8446	16500	5202
p-n=500-e=4000-q=200-d=0.25.13	Feasible	(L)	3600.2	10953	1.3688	11896	0.025006	4000	8446	12500	11271
p-n=500-e=4000-q=200-d=0.25.13	Feasible	(P)	3600.1	10944	0.37394	12492	0.042337	4000	4946	9000	51302
p-n=500-e=4000-q=200-d=0.25.13	Feasible	(STM)	3600.4	10744	2.8126	12459	0.088593	4000	8446	16500	5402
p-n=500-e=4000-q=200-d=0.25.14	Feasible	(U)	3600.1	10359	0.094986	12190	0.038209	4000	4946	9000	10035
p-n=500-e=4000-q=200-d=0.25.14	Feasible	(I)	3600.2	10289	2.7996	11480	0.054793	4000	8446	16500	7994
p-n=500-e=4000-q=200-d=0.25.14	Feasible	(L)	3600.2	10362	1.4508	11480	0.039362	4000	8446	12500	6556
p-n=500-e=4000-q=200-d=0.25.14	Feasible	(P)	3600.2	10364	0.42994	12123	0.064055	4000	4946	9000	71531
p-n=500-e=4000-q=200-d=0.25.14	Feasible	(STM)	3600.4	10154	2.1007	12119	0.11186	4000	8446	16500	7602
p-n=500-e=4000-q=200-d=0.25.15	Feasible	(U)	3600.2	10744	0.13198	12380	0.023856	4000	4941	9000	11185
p-n=500-e=4000-q=200-d=0.25.15	Feasible	(I)	3600.5	10752	1.8897	11764	0.031715	4000	8441	16500	7871
p-n=500-e=4000-q=200-d=0.25.15	Feasible	(L)	3600.2	10752	1.2678	11764	0.026103	4000	8441	12500	11311
p-n=500-e=4000-q=200-d=0.25.15	Feasible	(P)	3600	10753	0.37094	12310	0.041168	4000	4941	9000	84777
p-n=500-e=4000-q=200-d=0.25.15	Feasible	(STM)	3600.3	10680	2.1837	12326	0.078633	4000	8441	16500	9797

All Instances - Part 2

filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=500-e=4000-q=200-d=0.25.16	Feasible	(U)	3600.1	10768	0.11898	12417	0.028169	4000	4942	9000	12684
p-n=500-e=4000-q=200-d=0.25.16	Feasible	(I)	3600.2	10763	3.1185	11768	0.032205	4000	8442	16500	11298
p-n=500-e=4000-q=200-d=0.25.16	Feasible	(L)	3600.2	10768	1.3918	11768	0.028111	4000	8442	12500	12441
p-n=500-e=4000-q=200-d=0.25.16	Feasible	(P)	3600.2	10756	0.41894	12365	0.048303	4000	4942	9000	49398
p-n=500-e=4000-q=200-d=0.25.16	Feasible	(STM)	3600.3	10403	2.1707	12317	0.11758	4000	8442	16500	5898
p-n=500-e=4000-q=200-d=0.25.17	Feasible	(U)	3600.2	10770	0.18697	12490	0.032649	4000	4939	9000	9687
p-n=500-e=4000-q=200-d=0.25.17	Feasible	(I)	3600.2	10770	4.1924	11777	0.03213	4000	8439	16500	4701
p-n=500-e=4000-q=200-d=0.25.17	Feasible	(L)	3600	10785	1.0928	11777	0.020847	4000	8439	12500	14295
p-n=500-e=4000-q=200-d=0.25.17	Feasible	(P)	3600.2	10743	0.33395	12408	0.055146	4000	4939	9000	68295
p-n=500-e=4000-q=200-d=0.25.17	Feasible	(STM)	3600.2	10490	1.8827	12401	0.10882	4000	8439	16500	9595
p-n=500-e=4000-q=200-d=0.25.18	Feasible	(U)	3600.2	11049	0.11998	12652	0.019239	4000	4930	9000	11140
p-n=500-e=4000-q=200-d=0.25.18	Feasible	(I)	3600.2	11039	3.8144	11972	0.024954	4000	8430	16500	6448
p-n=500-e=4000-q=200-d=0.25.18	Feasible	(L)	3600.1	11049	1.1618	11972	0.014373	4000	8430	12500	14697
p-n=500-e=4000-q=200-d=0.25.18	Feasible	(P)	3600.1	11043	0.44593	12581	0.044506	4000	4930	9000	34486
p-n=500-e=4000-q=200-d=0.25.18	Feasible	(STM)	3600.3	10810	3.1545	12565	0.087563	4000	8430	16500	4886
p-n=500-e=4000-q=200-d=0.25.19	Feasible	(U)	3600	10016	0.10498	11760	0.037551	4000	4930	9000	12643
p-n=500-e=4000-q=200-d=0.25.19	Feasible	(I)	3600.1	9934.1	3.1545	11116	0.055113	4000	8430	16500	7410
p-n=500-e=4000-q=200-d=0.25.19	Feasible	(L)	3600.4	10027	1.6198	11116	0.039147	4000	8430	12500	10786
p-n=500-e=4000-q=200-d=0.25.19	Feasible	(P)	3600	10008	0.46693	11709	0.061266	4000	4930	9000	53057
p-n=500-e=4000-q=200-d=0.25.19	Feasible	(STM)	3600.1	9882	2.0127	11663	0.10824	4000	8430	16500	8526
p-n=1000-e=8000-q=200-d=0.25.0	Feasible	(U)	3600.4	21387	0.41294	24830	0.036012	8000	9884	18000	4390
p-n=1000-e=8000-q=200-d=0.25.0	Feasible	(I)	3600.2	21342	7.7318	23560	0.057826	8000	16884	33000	2716
p-n=1000-e=8000-q=200-d=0.25.0	Feasible	(L)	3600.8	21390	4.8043	23560	0.058889	8000	16884	25000	2105
p-n=1000-e=8000-q=200-d=0.25.0	Feasible	(P)	3600.3	21412	1.1238	24707	0.068251	8000	9884	18000	19990
p-n=1000-e=8000-q=200-d=0.25.0	Feasible	(STM)	3600.4	18798	6.0111	24672	0.23628	8000	16884	33000	1605
p-n=1000-e=8000-q=200-d=0.25.1	Feasible	(U)	3601.7	19912	0.41794	24314	0.096983	8000	9895	18000	5201
p-n=1000-e=8000-q=200-d=0.25.1	Feasible	(I)	3601.1	20483	5.0022	23042	0.079217	8000	16895	33000	1561
p-n=1000-e=8000-q=200-d=0.25.1	Feasible	(L)	3600.1	20908	5.9241	23042	0.060215	8000	16895	25000	3284
p-n=1000-e=8000-q=200-d=0.25.1	Feasible	(P)	3600.3	20862	0.82288	24185	0.076283	8000	9895	18000	12601
p-n=1000-e=8000-q=200-d=0.25.1	Feasible	(STM)	3600.8	18015	12.834	24222	0.26418	8000	16895	33000	761
p-n=1000-e=8000-q=200-d=0.25.2	Feasible	(U)	3600	20423	0.43493	24418	0.07142	8000	9881	18000	3092
p-n=1000-e=8000-q=200-d=0.25.2	Feasible	(I)	3600.5	20354	5.2332	23150	0.089077	8000	16881	33000	802
p-n=1000-e=8000-q=200-d=0.25.2	Feasible	(L)	3600.7	19949	5.8401	23150	0.11599	8000	16881	25000	3002
p-n=1000-e=8000-q=200-d=0.25.2	Feasible	(P)	3600.1	16742	1.2008	24298	0.34367	8000	9881	18000	11186
p-n=1000-e=8000-q=200-d=0.25.2	Feasible	(STM)	3601	19003	8.7807	24300	0.20356	8000	16881	33000	702
p-n=1000-e=8000-q=200-d=0.25.3	Feasible	(U)	3600.2	20212	0.38894	24596	0.084869	8000	9874	18000	6280
p-n=1000-e=8000-q=200-d=0.25.3	Feasible	(I)	3600.4	19872	8.4967	23170	0.1147	8000	16874	33000	1695
p-n=1000-e=8000-q=200-d=0.25.3	Feasible	(L)	3600.3	20841	3.9224	23170	0.064101	8000	16874	25000	4995
p-n=1000-e=8000-q=200-d=0.25.3	Feasible	(P)	3600.3	20502	1.1478	24455	0.094124	8000	9874	18000	19680
p-n=1000-e=8000-q=200-d=0.25.3	Feasible	(STM)	3600.1	19447	9.5185	24447	0.1813	8000	16874	33000	794
p-n=1000-e=8000-q=200-d=0.25.4	Feasible	(U)	3600.3	21123	0.46193	24715	0.05081	8000	9858	18000	1766
p-n=1000-e=8000-q=200-d=0.25.4	Feasible	(I)	3601	20490	8.9096	23422	0.096984	8000	16858	33000	1579
p-n=1000-e=8000-q=200-d=0.25.4	Feasible	(L)	3600.6	21138	4.4323	23422	0.067666	8000	16858	25000	2879
p-n=1000-e=8000-q=200-d=0.25.4	Feasible	(P)	3600.3	21166	1.2718	24602	0.081575	8000	9858	18000	10864
p-n=1000-e=8000-q=200-d=0.25.4	Feasible	(STM)	3600.4	20232	6.438	24555	0.14519	8000	16858	33000	1139
p-n=1000-e=8000-q=200-d=0.25.5	Feasible	(U)	3600.2	21479	0.34995	25055	0.046594	8000	9893	18000	5368
p-n=1000-e=8000-q=200-d=0.25.5	Feasible	(I)	3600.2	21258	3.5705	23813	0.075075	8000	16893	33000	2759
p-n=1000-e=8000-q=200-d=0.25.5	Feasible	(L)	3600.5	20883	3.8434	23813	0.093241	8000	16893	25000	2759
p-n=1000-e=8000-q=200-d=0.25.5	Feasible	(P)	3600.4	21563	1.0618	24931	0.074251	8000	9893	18000	12799
p-n=1000-e=8000-q=200-d=0.25.5	Feasible	(STM)	3600.5	18558	6.817	24862	0.26453	8000	16893	33000	1059
p-n=1000-e=8000-q=200-d=0.25.6	Feasible	(U)	3601.6	20536	0.41394	24329	0.052278	8000	9884	18000	4890
p-n=1000-e=8000-q=200-d=0.25.6	Feasible	(I)	3601.9	20463	5.8371	23032	0.072966	8000	16884	33000	2005
p-n=1000-e=8000-q=200-d=0.25.6	Feasible	(L)	3600.1	20221	3.7794	23032	0.083911	8000	16884	25000	2442
p-n=1000-e=8000-q=200-d=0.25.6	Feasible	(P)	3600.2	20677	1.0868	24196	0.0767	8000	9884	18000	13690
p-n=1000-e=8000-q=200-d=0.25.6	Feasible	(STM)	3600.1	18666	19.005	24247	0.21627	8000	16884	33000	1304
p-n=1000-e=8000-q=200-d=0.25.7	Feasible	(U)	3600.1	20480	0.57191	24575	0.072255	8000	9877	18000	3785
p-n=1000-e=8000-q=200-d=0.25.7	Feasible	(I)	3600.8	19927	11.382	23242	0.11581	8000	16877	33000	3198
p-n=1000-e=8000-q=200-d=0.25.7	Feasible	(L)	3600.5	20899	5.1772	23242	0.062916	8000	16877	25000	2798
p-n=1000-e=8000-q=200-d=0.25.7	Feasible	(P)	3600.5	20812	1.3338	24463	0.084418	8000	9877	18000	18183
p-n=1000-e=8000-q=200-d=0.25.7	Feasible	(STM)	3600.5	20710	7.2749	24419	0.11379	8000	16877	33000	2198
p-n=1000-e=8000-q=200-d=0.25.8	Feasible	(U)	3600.4	21583	0.50592	25322	0.052044	8000	9887	18000	5093
p-n=1000-e=8000-q=200-d=0.25.8	Feasible	(I)	3601	20795	10.371	24025	0.10764	8000	16887	33000	3543
p-n=1000-e=8000-q=200-d=0.25.8	Feasible	(L)	3600.6	19811	4.0154	24025	0.16783	8000	16887	25000	3253
p-n=1000-e=8000-q=200-d=0.25.8	Feasible	(P)	3600.4	21371	1.5348	25193	0.091232	8000	9887	18000	13793
p-n=1000-e=8000-q=200-d=0.25.8	Feasible	(STM)	3600.6	20313	7.0729	25218	0.17273	8000	16887	33000	753
p-n=1000-e=8000-q=200-d=0.25.9	Feasible	(U)	3600.2	21679	0.28696	25164	0.042026	8000	9884	18000	5252
p-n=1000-e=8000-q=200-d=0.25.9	Feasible	(I)	3600.9	21700	8.1348	23875	0.054175	8000	16884	33000	907
p-n=1000-e=8000-q=200-d=0.25.9	Feasible	(L)	3600.6	21608	4.5633	23875	0.057117	8000	16884	25000	2905
p-n=1000-e=8000-q=200-d=0.25.9	Feasible	(P)	3600.3	21723	1.1978	25034	0.066686	8000	9884	18000	11211
p-n=1000-e=8000-q=200-d=0.25.9	Feasible	(STM)	3600.7	18966	9.2166	24940	0.23839	8000	16884	33000	905
p-n=1000-e=8000-q=200-d=0.25.10	Feasible	(U)	3600.5	20835	0.38694	24787	0.056599	8000	9861	18000	1469
p-n=1000-e=8000-q=200-d=0.25.10	Feasible	(I)	3600.2	19559	8.1928	23380	0.14408	8000	16861	33000	2681
p-n=1000-e=8000-q=200-d=0.25.10	Feasible	(L)	3600.1	20144	4.2904	23380	0.11021	8000	16861	25000	2783
p-n=1000-e=8000-q=200-d=0.25.10	Feasible	(P)	3600.2	20970	1.4668	24653	0.08432	8000	9861	18000	9953
p-n=1000-e=8000-q=200-d=0.25.10	Feasible	(STM)	3600.8	18170	10.127	24559	0.27452	8000	16861	33000	882
p-n=1000-e=8000-q=200-d=0.25.11	Feasible	(U)	3600.5	21051	0.50292	24470	0.045	8000	9881	18000	4187
p-n=1000-e=8000-q=200-d=0.25.11	Feasible	(I)	3600.6	20862	6.1181	23190	0.065213	8000	16881	33000	2502
p-n=1000-e=8000-q=200-d=0.25.11	Feasible	(L)	3600.1	21195	4.0574	23190	0.048709	8000	16881	25000	4615
p-n=1000-e=8000-q=200-d=0.25.11	Feasible	(P)	3600.1	21196	1.1338	24343	0.060951	8000	9881	18000	15667
p-n=1000-e=8000-q=200-d=0.25.11	Feasible	(STM)	3600.3	20939	6.582	24356	0.096011	8000	16881	33000	3202

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filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=1000-e=8000-q=200-d=0.25.12	Feasible	(U)	3600.3	20512	0.42094	24429	0.065929	8000	9894	18000	3760
p-n=1000-e=8000-q=200-d=0.25.12	Feasible	(I)	3600.5	18872	5.3762	23157	0.18105	8000	16894	33000	3860
p-n=1000-e=8000-q=200-d=0.25.12	Feasible	(L)	3600.5	20105	3.1435	23157	0.11365	8000	16894	25000	4160
p-n=1000-e=8000-q=200-d=0.25.12	Feasible	(P)	3600.4	21032	0.83787	24322	0.072475	8000	9894	18000	10700
p-n=1000-e=8000-q=200-d=0.25.12	Feasible	(STM)	3600.6	18865	9.8145	24313	0.21433	8000	16894	33000	760
p-n=1000-e=8000-q=200-d=0.25.13	Feasible	(U)	3600.6	20884	0.43693	24302	0.043436	8000	9875	18000	1783
p-n=1000-e=8000-q=200-d=0.25.13	Feasible	(I)	3600.6	19902	5.3942	23030	0.11212	8000	16875	33000	2396
p-n=1000-e=8000-q=200-d=0.25.13	Feasible	(L)	3600.5	20673	4.2553	23030	0.066507	8000	16875	25000	3496
p-n=1000-e=8000-q=200-d=0.25.13	Feasible	(P)	3600.2	20883	0.73789	24178	0.066091	8000	9875	18000	12081
p-n=1000-e=8000-q=200-d=0.25.13	Feasible	(STM)	3600.6	18465	10.171	24085	0.23286	8000	16875	33000	896
p-n=1000-e=8000-q=200-d=0.25.14	Feasible	(U)	3600.4	20615	0.41894	24650	0.067881	8000	9858	18000	3153
p-n=1000-e=8000-q=200-d=0.25.14	Feasible	(I)	3600.7	20584	9.4636	23408	0.087811	8000	16858	33000	798
p-n=1000-e=8000-q=200-d=0.25.14	Feasible	(L)	3601	20741	4.2644	23408	0.0743	8000	16858	25000	2979
p-n=1000-e=8000-q=200-d=0.25.14	Feasible	(P)	3600.4	20851	1.3138	24521	0.089948	8000	9858	18000	9964
p-n=1000-e=8000-q=200-d=0.25.14	Feasible	(STM)	3600.7	17868	10.616	24537	0.29289	8000	16858	33000	979
p-n=1000-e=8000-q=200-d=0.25.15	Feasible	(U)	3600.5	21079	0.44793	24723	0.049636	8000	9879	18000	4515
p-n=1000-e=8000-q=200-d=0.25.15	Feasible	(I)	3600.2	21040	4.5293	23459	0.066958	8000	16879	33000	2720
p-n=1000-e=8000-q=200-d=0.25.15	Feasible	(L)	3600.5	20940	5.0792	23459	0.073666	8000	16879	25000	3307
p-n=1000-e=8000-q=200-d=0.25.15	Feasible	(P)	3600.4	21206	1.5008	24617	0.073608	8000	9879	18000	10985
p-n=1000-e=8000-q=200-d=0.25.15	Feasible	(STM)	3600.1	20862	8.0588	24559	0.10758	8000	16879	33000	1630
p-n=1000-e=8000-q=200-d=0.25.16	Feasible	(U)	3600.2	21032	0.34595	24672	0.050966	8000	9898	18000	3362
p-n=1000-e=8000-q=200-d=0.25.16	Feasible	(I)	3600.3	20563	7.1029	23269	0.089053	8000	16898	33000	1490
p-n=1000-e=8000-q=200-d=0.25.16	Feasible	(L)	3600.1	21050	4.8933	23269	0.06613	8000	16898	25000	3183
p-n=1000-e=8000-q=200-d=0.25.16	Feasible	(P)	3600.1	21020	1.5228	24537	0.078422	8000	9898	18000	10518
p-n=1000-e=8000-q=200-d=0.25.16	Feasible	(STM)	3600.4	19885	3.2225	24592	0.16236	8000	16898	33000	1614
p-n=1000-e=8000-q=200-d=0.25.17	Feasible	(U)	3600.1	21001	0.23996	24481	0.0431	8000	9884	18000	5456
p-n=1000-e=8000-q=200-d=0.25.17	Feasible	(I)	3600.3	21010	4.4203	23148	0.056832	8000	16884	33000	3577
p-n=1000-e=8000-q=200-d=0.25.17	Feasible	(L)	3600.6	21122	4.0534	23148	0.050169	8000	16884	25000	2831
p-n=1000-e=8000-q=200-d=0.25.17	Feasible	(P)	3600.1	21154	0.86387	24362	0.065742	8000	9884	18000	14491
p-n=1000-e=8000-q=200-d=0.25.17	Feasible	(STM)	3600.8	17476	8.9946	24241	0.30931	8000	16884	33000	805
p-n=1000-e=8000-q=200-d=0.25.18	Feasible	(U)	3600.3	20911	0.37894	24397	0.051092	8000	9883	18000	5491
p-n=1000-e=8000-q=200-d=0.25.18	Feasible	(I)	3600.2	20278	10.056	23116	0.098304	8000	16883	33000	2511
p-n=1000-e=8000-q=200-d=0.25.18	Feasible	(L)	3600.6	20568	4.7743	23116	0.082536	8000	16883	25000	2504
p-n=1000-e=8000-q=200-d=0.25.18	Feasible	(P)	3600.4	20973	1.5308	24269	0.076037	8000	9883	18000	15089
p-n=1000-e=8000-q=200-d=0.25.18	Feasible	(STM)	3600.2	20133	8.2297	24208	0.13435	8000	16883	33000	1223
p-n=1000-e=8000-q=200-d=0.25.19	Feasible	(U)	3600.4	21300	0.35095	24691	0.038338	8000	9887	18000	6503
p-n=1000-e=8000-q=200-d=0.25.19	Feasible	(I)	3600.1	21180	8.2007	23284	0.055167	8000	16887	33000	2192
p-n=1000-e=8000-q=200-d=0.25.19	Feasible	(L)	3600.1	21317	4.6983	23284	0.046628	8000	16887	25000	3293
p-n=1000-e=8000-q=200-d=0.25.19	Feasible	(P)	3602.3	20367	1.2598	24550	0.11509	8000	9887	18000	11293
p-n=1000-e=8000-q=200-d=0.25.19	Feasible	(STM)	3600.5	20874	6.771	24514	0.10735	8000	16887	33000	1553
p-n=1500-e=12000-q=200-d=0.25.0	Feasible	(U)	3600.5	30685	0.85287	37093	0.079906	12000	14820	27000	911
p-n=1500-e=12000-q=200-d=0.25.0	Feasible	(I)	3600.6	30586	17.31	35079	0.09867	12000	25320	49500	492
p-n=1500-e=12000-q=200-d=0.25.0	Feasible	(L)	3600.3	29540	3.6425	35079	0.13886	12000	25320	37500	1090
p-n=1500-e=12000-q=200-d=0.25.0	Feasible	(P)	3600.8	28081	2.7736	36904	0.21636	12000	14820	27000	5376
p-n=1500-e=12000-q=200-d=0.25.0	Feasible	(STM)	3600.8	23698	41.195	36768	0.45897	12000	25320	49500	490
p-n=1500-e=12000-q=200-d=0.25.1	Feasible	(U)	3600.5	30936	0.98785	36887	0.071178	12000	14829	27000	1785
p-n=1500-e=12000-q=200-d=0.25.1	Feasible	(I)	3600.6	23341	158.28	34921	0.44018	12000	25329	49500	680
p-n=1500-e=12000-q=200-d=0.25.1	Feasible	(L)	3600.3	29280	3.4375	34921	0.1441	12000	25329	37500	1699
p-n=1500-e=12000-q=200-d=0.25.1	Feasible	(P)	3600.6	28804	3.5465	36714	0.17485	12000	14829	27000	6185
p-n=1500-e=12000-q=200-d=0.25.1	Feasible	(STM)	3600.8	24271	17.259	36583	0.42055	12000	25329	49500	499
p-n=1500-e=12000-q=200-d=0.25.2	Feasible	(U)	3601	30931	0.87887	37292	0.076919	12000	14831	27000	4474
p-n=1500-e=12000-q=200-d=0.25.2	Feasible	(I)	3600.2	26776	13.18	35327	0.25943	12000	25331	49500	585
p-n=1500-e=12000-q=200-d=0.25.2	Feasible	(L)	3600.8	30470	8.0778	35327	0.11405	12000	25331	37500	802
p-n=1500-e=12000-q=200-d=0.25.2	Feasible	(P)	3600.4	24736	1.9997	37112	0.38934	12000	14831	27000	7587
p-n=1500-e=12000-q=200-d=0.25.2	Feasible	(STM)	3600.6	26558	12.357	37171	0.31406	12000	25331	49500	501
p-n=1500-e=12000-q=200-d=0.25.3	Feasible	(U)	3600.1	31223	0.49992	36742	0.059739	12000	14830	27000	1287
p-n=1500-e=12000-q=200-d=0.25.3	Feasible	(I)	3601.4	29959	17.321	34845	0.11729	12000	25330	49500	1101
p-n=1500-e=12000-q=200-d=0.25.3	Feasible	(L)	3600.2	30920	6.788	34845	0.086994	12000	25330	37500	816
p-n=1500-e=12000-q=200-d=0.25.3	Feasible	(P)	3601.4	30741	2.9766	36588	0.10271	12000	14830	27000	10187
p-n=1500-e=12000-q=200-d=0.25.3	Feasible	(STM)	3600.6	28858	46.671	36495	0.19239	12000	25330	49500	530
p-n=1500-e=12000-q=200-d=0.25.4	Feasible	(U)	3600.1	30368	0.91186	36412	0.075629	12000	14811	27000	529
p-n=1500-e=12000-q=200-d=0.25.4	Feasible	(I)	3601	28622	15.873	34494	0.15806	12000	25311	49500	682
p-n=1500-e=12000-q=200-d=0.25.4	Feasible	(L)	3600.8	29091	11.612	34494	0.14389	12000	25311	37500	2482
p-n=1500-e=12000-q=200-d=0.25.4	Feasible	(P)	3600.7	27267	2.9535	36228	0.23519	12000	14811	27000	7067
p-n=1500-e=12000-q=200-d=0.25.4	Feasible	(STM)	3600.4	28165	27.827	36156	0.20792	12000	25311	49500	571
p-n=1500-e=12000-q=200-d=0.25.5	Feasible	(U)	3600.1	31448	0.86487	37080	0.060843	12000	14833	27000	1590
p-n=1500-e=12000-q=200-d=0.25.5	Feasible	(I)	3600.4	17572	21.267	35087	0.91392	12000	25333	49500	557
p-n=1500-e=12000-q=200-d=0.25.5	Feasible	(L)	3600.6	25720	11.194	35087	0.31154	12000	25333	37500	863
p-n=1500-e=12000-q=200-d=0.25.5	Feasible	(P)	3600.4	31323	1.6907	36912	0.085301	12000	14833	27000	10489
p-n=1500-e=12000-q=200-d=0.25.5	Feasible	(STM)	3600.9	25512	48.995	36763	0.3583	12000	25333	49500	620
p-n=1500-e=12000-q=200-d=0.25.6	Feasible	(U)	3600.1	31244	0.77488	37510	0.073072	12000	14855	27000	1364
p-n=1500-e=12000-q=200-d=0.25.6	Feasible	(I)	3600.1	25644	15.65	35376	0.32632	12000	25355	49500	635
p-n=1500-e=12000-q=200-d=0.25.6	Feasible	(L)	3600.9	28337	8.1518	35376	0.1994	12000	25355	37500	671
p-n=1500-e=12000-q=200-d=0.25.6	Feasible	(P)	3600.3	22312	2.3326	37312	0.54948	12000	14855	27000	8297
p-n=1500-e=12000-q=200-d=0.25.6	Feasible	(STM)	3600.4	29852	28.11	37232	0.17265	12000	25355	49500	530
p-n=1500-e=12000-q=200-d=0.25.7	Feasible	(U)	3600.6	30866	0.86687	36986	0.07604	12000	14826	27000	1184
p-n=1500-e=12000-q=200-d=0.25.7	Feasible	(I)	3600.5	26060	17.623	34933	0.2851	12000	25326	49500	597
p-n=1500-e=12000-q=200-d=0.25.7	Feasible	(L)	3600.5	2670	8.2827	34933	11.558	12000	25326	37500	744
p-n=1500-e=12000-q=200-d=0.25.7	Feasible	(P)	3600.2	29862	2.1027	36797	0.14292	12000	14826	27000	10102
p-n=1500-e=12000-q=200-d=0.25.7	Feasible	(STM)	3600.8	26666	20.3	36699	0.31849	12000	25326	49500	496

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filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=1500-e=12000-q=200-d=0.25.8	Feasible	(U)	3600.6	30925	0.55992	36572	0.063474	12000	14828	27000	2797
p-n=1500-e=12000-q=200-d=0.25.8	Feasible	(I)	3600.4	19783	21.608	34745	0.6855	12000	25328	49500	550
p-n=1500-e=12000-q=200-d=0.25.8	Feasible	(L)	3600.5	29620	5.9181	34745	0.12611	12000	25328	37500	1099
p-n=1500-e=12000-q=200-d=0.25.8	Feasible	(P)	3600.3	28313	1.4718	36402	0.19745	12000	14828	27000	7484
p-n=1500-e=12000-q=200-d=0.25.8	Feasible	(STM)	3600.5	28779	33.197	36341	0.191	12000	25328	49500	588
p-n=1500-e=12000-q=200-d=0.25.9	Feasible	(U)	3600.7	30018	0.88987	37322	0.11815	12000	14823	27000	979
p-n=1500-e=12000-q=200-d=0.25.9	Feasible	(I)	3600.8	29485	15.622	35297	0.1548	12000	25323	49500	1894
p-n=1500-e=12000-q=200-d=0.25.9	Feasible	(L)	3600.9	30554	9.0366	35297	0.11517	12000	25323	37500	894
p-n=1500-e=12000-q=200-d=0.25.9	Feasible	(P)	3600.4	30141	2.6496	37135	0.13517	12000	14823	27000	10039
p-n=1500-e=12000-q=200-d=0.25.9	Feasible	(STM)	3601.2	27462	60.916	37128	0.27399	12000	25323	49500	495
p-n=1500-e=12000-q=200-d=0.25.10	Feasible	(U)	3600	30925	0.6479	36908	0.068022	12000	14808	27000	756
p-n=1500-e=12000-q=200-d=0.25.10	Feasible	(I)	3600.3	27923	164.25	34912	0.20295	12000	25308	49500	1380
p-n=1500-e=12000-q=200-d=0.25.10	Feasible	(L)	3600.9	28739	9.6785	34912	0.16857	12000	25308	37500	1990
p-n=1500-e=12000-q=200-d=0.25.10	Feasible	(P)	3600.8	29158	2.8706	36722	0.16791	12000	14808	27000	6164
p-n=1500-e=12000-q=200-d=0.25.10	Feasible	(STM)	3600.2	29527	15.319	36672	0.17001	12000	25308	49500	541
p-n=1500-e=12000-q=200-d=0.25.11	Feasible	(U)	3601.4	31042	0.85387	36936	0.07084	12000	14832	27000	499
p-n=1500-e=12000-q=200-d=0.25.11	Feasible	(I)	3600.1	2668	30.07	35031	11.615	12000	25332	49500	550
p-n=1500-e=12000-q=200-d=0.25.11	Feasible	(L)	3600.2	29038	10.108	35031	0.15673	12000	25332	37500	802
p-n=1500-e=12000-q=200-d=0.25.11	Feasible	(P)	3600.6	27614	2.6756	36760	0.23464	12000	14832	27000	8388
p-n=1500-e=12000-q=200-d=0.25.11	Feasible	(STM)	3601	24185	17.701	36624	0.43256	12000	25332	49500	502
p-n=1500-e=12000-q=200-d=0.25.12	Feasible	(U)	3600.4	29625	0.52192	36705	0.10954	12000	14819	27000	775
p-n=1500-e=12000-q=200-d=0.25.12	Feasible	(I)	3600.6	21453	11.505	34819	0.56256	12000	25319	49500	749
p-n=1500-e=12000-q=200-d=0.25.12	Feasible	(L)	3600.2	29425	5.5701	34819	0.13368	12000	25319	37500	1351
p-n=1500-e=12000-q=200-d=0.25.12	Feasible	(P)	3600.2	30516	2.0537	36535	0.10792	12000	14819	27000	9955
p-n=1500-e=12000-q=200-d=0.25.12	Feasible	(STM)	3600.3	29441	14.385	36500	0.17105	12000	25319	49500	536
p-n=1500-e=12000-q=200-d=0.25.13	Feasible	(U)	3600.3	32230	0.95286	37783	0.051855	12000	14815	27000	472
p-n=1500-e=12000-q=200-d=0.25.13	Feasible	(I)	3600.4	29658	26.753	35786	0.16165	12000	25315	49500	902
p-n=1500-e=12000-q=200-d=0.25.13	Feasible	(L)	3600.7	30104	8.7827	35786	0.14332	12000	25315	37500	686
p-n=1500-e=12000-q=200-d=0.25.13	Feasible	(P)	3600.4	30783	1.4118	37592	0.13586	12000	14815	27000	8471
p-n=1500-e=12000-q=200-d=0.25.13	Feasible	(STM)	3601.4	28514	46.458	37527	0.24176	12000	25315	49500	586
p-n=1500-e=12000-q=200-d=0.25.14	Feasible	(U)	3600.7	30998	0.98185	37095	0.075015	12000	14822	27000	1606
p-n=1500-e=12000-q=200-d=0.25.14	Feasible	(I)	3600.2	22975	21.391	35167	0.46564	12000	25322	49500	564
p-n=1500-e=12000-q=200-d=0.25.14	Feasible	(L)	3600.2	12688	10.614	35167	1.6556	12000	25322	37500	625
p-n=1500-e=12000-q=200-d=0.25.14	Feasible	(P)	3600.7	29435	2.5906	36907	0.15743	12000	14822	27000	7578
p-n=1500-e=12000-q=200-d=0.25.14	Feasible	(STM)	3600.4	29790	21.038	36911	0.16781	12000	25322	49500	689
p-n=1500-e=12000-q=200-d=0.25.15	Feasible	(U)	3600.8	31501	1.0228	37283	0.066196	12000	14812	27000	1269
p-n=1500-e=12000-q=200-d=0.25.15	Feasible	(I)	3600.1	29550	12.751	35332	0.14765	12000	25312	49500	774
p-n=1500-e=12000-q=200-d=0.25.15	Feasible	(L)	3600.4	30521	6.55	35332	0.11329	12000	25312	37500	1385
p-n=1500-e=12000-q=200-d=0.25.15	Feasible	(P)	3600.6	29859	2.0747	37108	0.15509	12000	14812	27000	9568
p-n=1500-e=12000-q=200-d=0.25.15	Feasible	(STM)	3600.1	25825	8.0338	37077	0.35737	12000	25312	49500	653
p-n=1500-e=12000-q=200-d=0.25.16	Feasible	(U)	3600	31574	0.79888	37274	0.061284	12000	14847	27000	1262
p-n=1500-e=12000-q=200-d=0.25.16	Feasible	(I)	3600.8	22678	15.324	35264	0.49265	12000	25347	49500	655
p-n=1500-e=12000-q=200-d=0.25.16	Feasible	(L)	3601.3	28135	11.184	35264	0.20208	12000	25347	37500	2118
p-n=1500-e=12000-q=200-d=0.25.16	Feasible	(P)	3600.7	23118	3.0835	37074	0.48711	12000	14847	27000	5703
p-n=1500-e=12000-q=200-d=0.25.16	Feasible	(STM)	3600.4	29652	8.0168	37054	0.17704	12000	25347	49500	586
p-n=1500-e=12000-q=200-d=0.25.17	Feasible	(U)	3601	26032	0.97385	37022	0.27146	12000	14831	27000	887
p-n=1500-e=12000-q=200-d=0.25.17	Feasible	(I)	3600.1	17560	21.944	35020	0.91267	12000	25331	49500	578
p-n=1500-e=12000-q=200-d=0.25.17	Feasible	(L)	3600.2	30201	8.3237	35020	0.11619	12000	25331	37500	1180
p-n=1500-e=12000-q=200-d=0.25.17	Feasible	(P)	3600.5	24610	2.6416	36844	0.38017	12000	14831	27000	7488
p-n=1500-e=12000-q=200-d=0.25.17	Feasible	(STM)	3600.7	28014	13.193	36762	0.23553	12000	25331	49500	531
p-n=1500-e=12000-q=200-d=0.25.18	Feasible	(U)	3600.2	31393	0.50192	37027	0.05939	12000	14825	27000	2382
p-n=1500-e=12000-q=200-d=0.25.18	Feasible	(I)	3600.3	14803	16.546	34985	1.2729	12000	25325	49500	595
p-n=1500-e=12000-q=200-d=0.25.18	Feasible	(L)	3600.2	27953	9.7065	34985	0.20647	12000	25325	37500	795
p-n=1500-e=12000-q=200-d=0.25.18	Feasible	(P)	3600.4	29407	1.6807	36841	0.1614	12000	14825	27000	10581
p-n=1500-e=12000-q=200-d=0.25.18	Feasible	(STM)	3600.5	29598	7.8918	36782	0.17036	12000	25325	49500	596
p-n=1500-e=12000-q=200-d=0.25.19	Feasible	(U)	3600.4	31850	0.6389	37470	0.061136	12000	14810	27000	968
p-n=1500-e=12000-q=200-d=0.25.19	Feasible	(I)	3600.7	26921	13.889	35477	0.26995	12000	25310	49500	2081
p-n=1500-e=12000-q=200-d=0.25.19	Feasible	(L)	3600.2	28349	4.5123	35477	0.20863	12000	25310	37500	800
p-n=1500-e=12000-q=200-d=0.25.19	Feasible	(P)	3600.3	31090	1.2658	37285	0.11574	12000	14810	27000	11166
p-n=1500-e=12000-q=200-d=0.25.19	Feasible	(STM)	3601.4	26969	18.266	37154	0.30131	12000	25310	49500	480
p-n=2000-e=16000-q=200-d=0.25.0	Feasible	(U)	3600.4	40264	1.1078	48638	0.085614	16000	19763	36000	576
p-n=2000-e=16000-q=200-d=0.25.0	Feasible	(I)	3600.4	3560	603.95	45970	11.433	16000	33763	66000	498
p-n=2000-e=16000-q=200-d=0.25.0	Feasible	(L)	3600.5	33420	10.493	45970	0.32383	16000	33763	50000	538
p-n=2000-e=16000-q=200-d=0.25.0	Feasible	(P)	3600.8	26567	4.6453	48396	0.6974	16000	19763	36000	6870
p-n=2000-e=16000-q=200-d=0.25.0	Feasible	(STM)	3610.6	34135	20.713	48313	0.33912	16000	33763	66000	498
p-n=2000-e=16000-q=200-d=0.25.1	Feasible	(U)	3600.3	40754	1.1028	49396	0.096931	16000	19739	36000	500
p-n=2000-e=16000-q=200-d=0.25.1	Feasible	(I)	3600.7	24225	20.707	46809	0.85501	16000	33739	66000	474
p-n=2000-e=16000-q=200-d=0.25.1	Feasible	(L)	3600.1	33902	11.146	46809	0.32736	16000	33739	50000	523
p-n=2000-e=16000-q=200-d=0.25.1	Feasible	(P)	3600.5	39027	2.6256	49164	0.16763	16000	19739	36000	6400
p-n=2000-e=16000-q=200-d=0.25.1	Feasible	(STM)	3600.3	29636	28.108	49068	0.59056	16000	33739	66000	10
p-n=2000-e=16000-q=200-d=0.25.2	Feasible	(U)	3600.6	41255	1.6598	49220	0.071414	16000	19767	36000	544
p-n=2000-e=16000-q=200-d=0.25.2	Feasible	(I)	3600.3	39359	25.03	46696	0.1409	16000	33767	66000	504
p-n=2000-e=16000-q=200-d=0.25.2	Feasible	(L)	3600.6	39838	11.964	46696	0.12379	16000	33767	50000	565
p-n=2000-e=16000-q=200-d=0.25.2	Feasible	(P)	3600.6	38767	2.3136	48960	0.17897	16000	19767	36000	5373
p-n=2000-e=16000-q=200-d=0.25.2	Feasible	(STM)	3600.5	31345	75.386	49017	0.48528	16000	33767	66000	502
p-n=2000-e=16000-q=200-d=0.25.3	Feasible	(U)	3600.7	40944	1.1348	49331	0.083542	16000	19742	36000	605
p-n=2000-e=16000-q=200-d=0.25.3	Feasible	(I)	3600.6	34204	11.21	46692	0.31097	16000	33742	66000	567
p-n=2000-e=16000-q=200-d=0.25.3	Feasible	(L)	3600.2	39072	4.9253	46692	0.15146	16000	33742	50000	557
p-n=2000-e=16000-q=200-d=0.25.3	Feasible	(P)	3600.8	38786	1.6538	49066	0.17993	16000	19742	36000	7003
p-n=2000-e=16000-q=200-d=0.25.3	Feasible	(STM)	3601.4	32246	15.096	48982	0.44456	16000	33742	66000	477

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filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=2000-e=16000-q=200-d=0.25.4	Feasible	(U)	3600.4	40466	1.4128	48750	0.084981	16000	19762	36000	469
p-n=2000-e=16000-q=200-d=0.25.4	Feasible	(I)	3601.3	38350	37.795	46243	0.15784	16000	33762	66000	698
p-n=2000-e=16000-q=200-d=0.25.4	Feasible	(L)	3600.2	4353.1	13.284	46243	9.1987	16000	33762	50000	607
p-n=2000-e=16000-q=200-d=0.25.4	Feasible	(P)	3600.8	37321	3.8174	48518	0.21063	16000	19762	36000	7168
p-n=2000-e=16000-q=200-d=0.25.4	Feasible	(STM)	3600.5	30398	40.134	48450	0.53008	16000	33762	66000	100
p-n=2000-e=16000-q=200-d=0.25.5	Feasible	(U)	3600.1	40546	1.2168	48867	0.086614	16000	19754	36000	489
p-n=2000-e=16000-q=200-d=0.25.5	Feasible	(I)	3601.3	28840	21.181	46201	0.54387	16000	33754	66000	489
p-n=2000-e=16000-q=200-d=0.25.5	Feasible	(L)	3600.1	37633	11.357	46201	0.18235	16000	33754	50000	789
p-n=2000-e=16000-q=200-d=0.25.5	Feasible	(P)	3601	39184	3.5495	48578	0.15711	16000	19754	36000	8360
p-n=2000-e=16000-q=200-d=0.25.5	Feasible	(STM)	3612.7	34203	22.458	48662	0.34742	16000	33754	66000	489
p-n=2000-e=16000-q=200-d=0.25.6	Feasible	(U)	3600.3	41583	0.89086	49957	0.080863	16000	19762	36000	515
p-n=2000-e=16000-q=200-d=0.25.6	Feasible	(I)	3601	39443	30.818	47389	0.15581	16000	33762	66000	497
p-n=2000-e=16000-q=200-d=0.25.6	Feasible	(L)	3600.6	38708	15.04	47389	0.17726	16000	33762	50000	744
p-n=2000-e=16000-q=200-d=0.25.6	Feasible	(P)	3600.2	41928	2.3266	49725	0.10449	16000	19762	36000	7627
p-n=2000-e=16000-q=200-d=0.25.6	Feasible	(STM)	3600.5	35467	44.429	49611	0.32327	16000	33762	66000	497
p-n=2000-e=16000-q=200-d=0.25.7	Feasible	(U)	3601.2	41265	1.6258	49843	0.082272	16000	19759	36000	519
p-n=2000-e=16000-q=200-d=0.25.7	Feasible	(I)	3601.2	39548	43.638	47198	0.15085	16000	33759	66000	494
p-n=2000-e=16000-q=200-d=0.25.7	Feasible	(L)	3602	38436	15.967	47198	0.18959	16000	33759	50000	494
p-n=2000-e=16000-q=200-d=0.25.7	Feasible	(P)	3600.4	25074	5.1942	49588	0.84574	16000	19759	36000	3866
p-n=2000-e=16000-q=200-d=0.25.7	Feasible	(STM)	3601.3	29928	30.765	49501	0.57636	16000	33759	66000	494
p-n=2000-e=16000-q=200-d=0.25.8	Feasible	(U)	3601	39173	1.0658	49967	0.1455	16000	19766	36000	672
p-n=2000-e=16000-q=200-d=0.25.8	Feasible	(I)	3600.3	26435	22.787	47220	0.71904	16000	33766	66000	531
p-n=2000-e=16000-q=200-d=0.25.8	Feasible	(L)	3601.4	40554	13.412	47220	0.12106	16000	33766	50000	604
p-n=2000-e=16000-q=200-d=0.25.8	Feasible	(P)	3600.5	41140	2.6446	49696	0.12612	16000	19766	36000	5472
p-n=2000-e=16000-q=200-d=0.25.8	Feasible	(STM)	3601.3	36018	46.429	49616	0.30523	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.9	Feasible	(U)	3600.3	41112	1.5068	48928	0.067601	16000	19766	36000	501
p-n=2000-e=16000-q=200-d=0.25.9	Feasible	(I)	3601.4	25505	34.413	46299	0.74568	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.9	Feasible	(L)	3600.9	39664	15.145	46299	0.12194	16000	33766	50000	902
p-n=2000-e=16000-q=200-d=0.25.9	Feasible	(P)	3601.3	37679	4.4293	48685	0.2057	16000	19766	36000	7672
p-n=2000-e=16000-q=200-d=0.25.9	Feasible	(STM)	3610.2	35520	75.19	48604	0.30779	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.10	Feasible	(U)	3600.4	41502	1.5828	49206	0.062947	16000	19754	36000	461
p-n=2000-e=16000-q=200-d=0.25.10	Feasible	(I)	3600.3	3566	36.395	46573	11.573	16000	33754	66000	489
p-n=2000-e=16000-q=200-d=0.25.10	Feasible	(L)	3600.3	19664	12.669	46573	1.2786	16000	33754	50000	618
p-n=2000-e=16000-q=200-d=0.25.10	Feasible	(P)	3601.7	38994	4.5173	48956	0.17103	16000	19754	36000	6160
p-n=2000-e=16000-q=200-d=0.25.10	Feasible	(STM)	3600.5	24218	67.033	48809	0.90763	16000	33754	66000	489
p-n=2000-e=16000-q=200-d=0.25.11	Feasible	(U)	3600.7	42119	1.2128	50146	0.06726	16000	19744	36000	506
p-n=2000-e=16000-q=200-d=0.25.11	Feasible	(I)	3601.8	3558	23.516	47424	11.812	16000	33744	66000	479
p-n=2000-e=16000-q=200-d=0.25.11	Feasible	(L)	3601.2	33764	11.287	47424	0.34991	16000	33744	50000	580
p-n=2000-e=16000-q=200-d=0.25.11	Feasible	(P)	3600.8	26444	4.7963	49873	0.7592	16000	19744	36000	4605
p-n=2000-e=16000-q=200-d=0.25.11	Feasible	(STM)	3602.5	26178	48.11	49864	0.80692	16000	33744	66000	479
p-n=2000-e=16000-q=200-d=0.25.12	Feasible	(U)	3600.9	40629	1.8907	48991	0.082484	16000	19733	36000	596
p-n=2000-e=16000-q=200-d=0.25.12	Feasible	(I)	3600.6	22713	26.386	46293	0.95844	16000	33733	66000	468
p-n=2000-e=16000-q=200-d=0.25.12	Feasible	(L)	3600.6	3542	18.524	46293	11.526	16000	33733	50000	508
p-n=2000-e=16000-q=200-d=0.25.12	Feasible	(P)	3600.8	9707.5	5.8191	48730	3.6803	16000	19733	36000	5995
p-n=2000-e=16000-q=200-d=0.25.12	Feasible	(STM)	3600.9	34008	25.844	48623	0.35523	16000	33733	66000	520
p-n=2000-e=16000-q=200-d=0.25.13	Feasible	(U)	3600.8	42670	1.5388	50428	0.060787	16000	19773	36000	599
p-n=2000-e=16000-q=200-d=0.25.13	Feasible	(I)	3601.3	30616	28.994	47536	0.49387	16000	33773	66000	453
p-n=2000-e=16000-q=200-d=0.25.13	Feasible	(L)	3600.8	36302	11.395	47536	0.25823	16000	33773	50000	524
p-n=2000-e=16000-q=200-d=0.25.13	Feasible	(P)	3601.3	41019	3.6804	50163	0.13575	16000	19773	36000	4479
p-n=2000-e=16000-q=200-d=0.25.13	Feasible	(STM)	3600.4	33402	19.754	50028	0.41288	16000	33773	66000	453
p-n=2000-e=16000-q=200-d=0.25.14	Feasible	(U)	3600.2	41352	2.0317	49939	0.084997	16000	19733	36000	535
p-n=2000-e=16000-q=200-d=0.25.14	Feasible	(I)	3601.2	26417	22.855	47263	0.71995	16000	33733	66000	488
p-n=2000-e=16000-q=200-d=0.25.14	Feasible	(L)	3600.5	40296	12.641	47263	0.12958	16000	33733	50000	470
p-n=2000-e=16000-q=200-d=0.25.14	Feasible	(P)	3600.9	39250	5.4362	49686	0.18131	16000	19733	36000	5894
p-n=2000-e=16000-q=200-d=0.25.14	Feasible	(STM)	3600.2	34945	32.326	49627	0.36536	16000	33733	66000	468
p-n=2000-e=16000-q=200-d=0.25.15	Feasible	(U)	3601.2	41348	1.1768	49798	0.081392	16000	19717	36000	780
p-n=2000-e=16000-q=200-d=0.25.15	Feasible	(I)	3600.1	22276	26.036	47125	1.0334	16000	33717	66000	462
p-n=2000-e=16000-q=200-d=0.25.15	Feasible	(L)	3600.8	29586	12.226	47125	0.53392	16000	33717	50000	1053
p-n=2000-e=16000-q=200-d=0.25.15	Feasible	(P)	3600.1	25763	2.7706	49536	0.79444	16000	19717	36000	9278
p-n=2000-e=16000-q=200-d=0.25.15	Feasible	(STM)	3600.3	34327	114.46	49583	0.37564	16000	33717	66000	452
p-n=2000-e=16000-q=200-d=0.25.16	Feasible	(U)	3600.2	40869	1.4058	48723	0.071993	16000	19746	36000	581
p-n=2000-e=16000-q=200-d=0.25.16	Feasible	(I)	3600.2	38928	31.457	46102	0.16268	16000	33746	66000	481
p-n=2000-e=16000-q=200-d=0.25.16	Feasible	(L)	3600.9	24094	7.8208	46102	0.8394	16000	33746	50000	481
p-n=2000-e=16000-q=200-d=0.25.16	Feasible	(P)	3600.4	39214	4.2614	48484	0.15406	16000	19746	36000	3857
p-n=2000-e=16000-q=200-d=0.25.16	Feasible	(STM)	3600.6	33753	21.186	48416	0.3569	16000	33746	66000	481
p-n=2000-e=16000-q=200-d=0.25.17	Feasible	(U)	3600.4	42002	1.5808	49412	0.060381	16000	19766	36000	473
p-n=2000-e=16000-q=200-d=0.25.17	Feasible	(I)	3600.4	34406	34.734	46913	0.30982	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.17	Feasible	(L)	3600.9	40616	11.326	46913	0.11287	16000	33766	50000	1002
p-n=2000-e=16000-q=200-d=0.25.17	Feasible	(P)	3601.4	39836	4.3413	49149	0.15329	16000	19766	36000	7172
p-n=2000-e=16000-q=200-d=0.25.17	Feasible	(STM)	3601.1	33029	23.829	49094	0.39917	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.18	Feasible	(U)	3600.4	40506	1.1758	49577	0.096005	16000	19766	36000	531
p-n=2000-e=16000-q=200-d=0.25.18	Feasible	(I)	3600.3	29119	32.178	47008	0.54741	16000	33766	66000	501
p-n=2000-e=16000-q=200-d=0.25.18	Feasible	(L)	3600.3	33765	9.4256	47008	0.33581	16000	33766	50000	561
p-n=2000-e=16000-q=200-d=0.25.18	Feasible	(P)	3600.8	24877	3.3065	49351	0.83187	16000	19766	36000	5972
p-n=2000-e=16000-q=200-d=0.25.18	Feasible	(STM)	3601	30921	20.929	49217	0.5315	16000	33766	66000	101
p-n=2000-e=16000-q=200-d=0.25.19	Feasible	(U)	3600.4	41630	0.61291	49714	0.076245	16000	19759	36000	1067
p-n=2000-e=16000-q=200-d=0.25.19	Feasible	(I)	3601	25520	32.801	47035	0.77803	16000	33759	66000	494
p-n=2000-e=16000-q=200-d=0.25.19	Feasible	(L)	3600.1	39282	19.38	47035	0.15327	16000	33759	50000	592
p-n=2000-e=16000-q=200-d=0.25.19	Feasible	(P)	3600.4	22780	3.0195	49459	1.0221	16000	19759	36000	6341
p-n=2000-e=16000-q=200-d=0.25.19	Feasible	(STM)	3601.6	35300	36.623	49426	0.34323	16000	33759	66000	201

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filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=2500-e=20000-q=200-d=0.25.0	Feasible	(U)	3600.2	51228	1.3038	61659	0.083464	20000	24684	45000	544
p-n=2500-e=20000-q=200-d=0.25.0	Feasible	(I)	3600.3	31080	37.139	58292	0.81419	20000	42184	82500	524
p-n=2500-e=20000-q=200-d=0.25.0	Feasible	(L)	3600.4	47483	16.456	58292	0.18357	20000	42184	62500	524
p-n=2500-e=20000-q=200-d=0.25.0	Feasible	(P)	3601.1	48294	6.1561	61349	0.18561	20000	24684	45000	2795
p-n=2500-e=20000-q=200-d=0.25.0	Feasible	(STM)	3611.9	33315	58.911	61325	0.75057	20000	42184	82500	524
p-n=2500-e=20000-q=200-d=0.25.1	Feasible	(U)	3601.4	50641	1.8027	62238	0.10677	20000	24658	45000	470
p-n=2500-e=20000-q=200-d=0.25.1	Feasible	(I)	3601.9	35436	33.09	58880	0.59927	20000	42158	82500	498
p-n=2500-e=20000-q=200-d=0.25.1	Feasible	(L)	3600.2	31518	19.567	58880	0.79608	20000	42158	62500	538
p-n=2500-e=20000-q=200-d=0.25.1	Feasible	(P)	3600.8	48486	3.5495	61904	0.19507	20000	24658	45000	4969
p-n=2500-e=20000-q=200-d=0.25.1	Feasible	(STM)	3600.9	44726	44.125	61809	0.31358	20000	42158	82500	498
p-n=2500-e=20000-q=200-d=0.25.2	Feasible	(U)	3601.1	50687	2.3426	61497	0.095433	20000	24691	45000	505
p-n=2500-e=20000-q=200-d=0.25.2	Feasible	(I)	3600.7	48256	37.698	58252	0.18363	20000	42191	82500	0
p-n=2500-e=20000-q=200-d=0.25.2	Feasible	(L)	3600.5	44748	16.488	58252	0.2544	20000	42191	62500	476
p-n=2500-e=20000-q=200-d=0.25.2	Feasible	(P)	3601.3	35964	5.9211	61196	0.58984	20000	24691	45000	5502
p-n=2500-e=20000-q=200-d=0.25.2	Feasible	(STM)	3600.8	43607	38.261	61107	0.33951	20000	42191	82500	476
p-n=2500-e=20000-q=200-d=0.25.3	Feasible	(U)	3600.4	45297	2.2277	61344	0.22433	20000	24673	45000	483
p-n=2500-e=20000-q=200-d=0.25.3	Feasible	(I)	3601.2	4442	40.953	58132	11.67	20000	42173	82500	513
p-n=2500-e=20000-q=200-d=0.25.3	Feasible	(L)	3601.3	4442	23.055	58132	11.605	20000	42173	62500	553
p-n=2500-e=20000-q=200-d=0.25.3	Feasible	(P)	3600.1	35709	4.5503	61039	0.60216	20000	24673	45000	5402
p-n=2500-e=20000-q=200-d=0.25.3	Feasible	(STM)	3601	44681	68.859	61044	0.31118	20000	42173	82500	201
p-n=2500-e=20000-q=200-d=0.25.4	Feasible	(U)	3600.7	46631	1.2538	62623	0.20857	20000	24714	45000	529
p-n=2500-e=20000-q=200-d=0.25.4	Feasible	(I)	3600.9	4444	826.68	59324	11.907	20000	42214	82500	499
p-n=2500-e=20000-q=200-d=0.25.4	Feasible	(L)	3600.3	28982	34.045	59324	0.97081	20000	42214	62500	499
p-n=2500-e=20000-q=200-d=0.25.4	Feasible	(P)	3600.3	0	4.1534	62308	inf	20000	24714	45000	6953
p-n=2500-e=20000-q=200-d=0.25.4	Feasible	(STM)	3602	44468	66.902	62170	0.34526	20000	42214	82500	301
p-n=2500-e=20000-q=200-d=0.25.5	Feasible	(U)	3600.5	50643	2.4386	61826	0.10599	20000	24709	45000	466
p-n=2500-e=20000-q=200-d=0.25.5	Feasible	(I)	3600.9	26927	54.193	58635	1.1105	20000	42209	82500	494
p-n=2500-e=20000-q=200-d=0.25.5	Feasible	(L)	3600.4	4442	27.314	58635	11.739	20000	42209	62500	524
p-n=2500-e=20000-q=200-d=0.25.5	Feasible	(P)	3600.4	33726	3.7364	61552	0.70017	20000	24709	45000	6703
p-n=2500-e=20000-q=200-d=0.25.5	Feasible	(STM)	3600.1	39968	89.451	61393	0.47807	20000	42209	82500	494
p-n=2500-e=20000-q=200-d=0.25.6	Feasible	(U)	3600	45135	1.6458	62065	0.23827	20000	24687	45000	497
p-n=2500-e=20000-q=200-d=0.25.6	Feasible	(I)	3600.4	28865	43.379	58696	0.97105	20000	42187	82500	472
p-n=2500-e=20000-q=200-d=0.25.6	Feasible	(L)	3600.8	30237	8.4267	58696	0.8669	20000	42187	62500	472
p-n=2500-e=20000-q=200-d=0.25.6	Feasible	(P)	3600.7	32173	4.3823	61763	0.79248	20000	24687	45000	1498
p-n=2500-e=20000-q=200-d=0.25.6	Feasible	(STM)	3603.6	33356	29.863	61679	0.76414	20000	42187	82500	472
p-n=2500-e=20000-q=200-d=0.25.7	Feasible	(U)	3601.6	47766	1.4688	61663	0.16055	20000	24709	45000	464
p-n=2500-e=20000-q=200-d=0.25.7	Feasible	(I)	3601.4	46291	993.11	58364	0.23698	20000	42209	82500	495
p-n=2500-e=20000-q=200-d=0.25.7	Feasible	(L)	3600.9	49028	21.77	58364	0.15536	20000	42209	62500	496
p-n=2500-e=20000-q=200-d=0.25.7	Feasible	(P)	3600.7	49576	4.1424	61385	0.15525	20000	24709	45000	4667
p-n=2500-e=20000-q=200-d=0.25.7	Feasible	(STM)	3600.5	43309	145.29	61240	0.35857	20000	42209	82500	494
p-n=2500-e=20000-q=200-d=0.25.8	Feasible	(U)	3601.2	52342	2.2936	62980	0.088183	20000	24679	45000	491
p-n=2500-e=20000-q=200-d=0.25.8	Feasible	(I)	3600.3	4456	67.395	59556	12.024	20000	42179	82500	519
p-n=2500-e=20000-q=200-d=0.25.8	Feasible	(L)	3601	4456	54.724	59556	11.832	20000	42179	62500	519
p-n=2500-e=20000-q=200-d=0.25.8	Feasible	(P)	3600.8	49306	4.7773	62656	0.18715	20000	24679	45000	4490
p-n=2500-e=20000-q=200-d=0.25.8	Feasible	(STM)	3602.5	41231	48.686	62558	0.44011	20000	42179	82500	519
p-n=2500-e=20000-q=200-d=0.25.9	Feasible	(U)	3600.5	47899	1.5298	62378	0.17488	20000	24670	45000	480
p-n=2500-e=20000-q=200-d=0.25.9	Feasible	(I)	3600.7	23584	55.764	59096	1.4228	20000	42170	82500	510
p-n=2500-e=20000-q=200-d=0.25.9	Feasible	(L)	3600.7	40245	34.14	59096	0.41301	20000	42170	62500	611
p-n=2500-e=20000-q=200-d=0.25.9	Feasible	(P)	3600.2	32912	6.584	62049	0.75931	20000	24670	45000	4123
p-n=2500-e=20000-q=200-d=0.25.9	Feasible	(STM)	3602.9	44770	79.927	62137	0.33293	20000	42170	82500	401
p-n=2500-e=20000-q=200-d=0.25.10	Feasible	(U)	3600.2	43812	1.6058	61524	0.26863	20000	24672	45000	482
p-n=2500-e=20000-q=200-d=0.25.10	Feasible	(I)	3601.8	33700	57.967	58270	0.68	20000	42172	82500	512
p-n=2500-e=20000-q=200-d=0.25.10	Feasible	(L)	3601.2	39764	17.925	58270	0.40939	20000	42172	62500	518
p-n=2500-e=20000-q=200-d=0.25.10	Feasible	(P)	3602.1	48741	7.1269	61221	0.17734	20000	24672	45000	3483
p-n=2500-e=20000-q=200-d=0.25.10	Feasible	(STM)	3601	44018	48.367	61053	0.32724	20000	42172	82500	540
p-n=2500-e=20000-q=200-d=0.25.11	Feasible	(U)	3601.6	50356	2.3326	61719	0.10415	20000	24713	45000	768
p-n=2500-e=20000-q=200-d=0.25.11	Feasible	(I)	3607.6	28780	55.56	58322	0.961	20000	42213	82500	498
p-n=2500-e=20000-q=200-d=0.25.11	Feasible	(L)	3600.8	35632	25.237	58322	0.5782	20000	42213	62500	498
p-n=2500-e=20000-q=200-d=0.25.11	Feasible	(P)	3603.1	28457	8.1967	61384	1.0189	20000	24713	45000	3269
p-n=2500-e=20000-q=200-d=0.25.11	Feasible	(STM)	3601.2	45007	39.884	61279	0.30396	20000	42213	82500	498
p-n=2500-e=20000-q=200-d=0.25.12	Feasible	(U)	3600.4	50989	1.6578	61463	0.090867	20000	24714	45000	542
p-n=2500-e=20000-q=200-d=0.25.12	Feasible	(I)	3600.9	46153	24.457	58373	0.24265	20000	42214	82500	201
p-n=2500-e=20000-q=200-d=0.25.12	Feasible	(L)	3600.4	36621	18.977	58373	0.53708	20000	42214	62500	589
p-n=2500-e=20000-q=200-d=0.25.12	Feasible	(P)	3601.1	48690	3.7804	61165	0.17667	20000	24714	45000	5170
p-n=2500-e=20000-q=200-d=0.25.12	Feasible	(STM)	3600.9	32296	184.56	61086	0.80145	20000	42214	82500	499
p-n=2500-e=20000-q=200-d=0.25.13	Feasible	(U)	3609.7	46695	2.6676	61450	0.19028	20000	24706	45000	461
p-n=2500-e=20000-q=200-d=0.25.13	Feasible	(I)	3600.1	26447	44.317	58170	1.1239	20000	42206	82500	491
p-n=2500-e=20000-q=200-d=0.25.13	Feasible	(L)	3600.5	4444	16.279	58170	11.592	20000	42206	62500	511
p-n=2500-e=20000-q=200-d=0.25.13	Feasible	(P)	3601.1	47288	5.3472	61128	0.20849	20000	24706	45000	3562
p-n=2500-e=20000-q=200-d=0.25.13	Feasible	(STM)	3602.8	30501	37.459	61018	0.92125	20000	42206	82500	0
p-n=2500-e=20000-q=200-d=0.25.14	Feasible	(U)	3601	51906	2.6776	62252	0.094931	20000	24708	45000	401
p-n=2500-e=20000-q=200-d=0.25.14	Feasible	(I)	3602.7	48521	32.719	59085	0.17669	20000	42208	82500	493
p-n=2500-e=20000-q=200-d=0.25.14	Feasible	(L)	3600.2	47303	42.434	59085	0.22888	20000	42208	62500	466
p-n=2500-e=20000-q=200-d=0.25.14	Feasible	(P)	3600.5	27663	5.4642	61950	1.092	20000	24708	45000	5457
p-n=2500-e=20000-q=200-d=0.25.14	Feasible	(STM)	3601	39993	53.001	61862	0.48993	20000	42208	82500	200
p-n=2500-e=20000-q=200-d=0.25.15	Feasible	(U)	3600.8	51998	2.7176	62570	0.093359	20000	24680	45000	492
p-n=2500-e=20000-q=200-d=0.25.15	Feasible	(I)	3600.8	32365	34.184	59184	0.796	20000	42180	82500	520
p-n=2500-e=20000-q=200-d=0.25.15	Feasible	(L)	3600.2	4460	33.441	59184	11.769	20000	42180	62500	540
p-n=2500-e=20000-q=200-d=0.25.15	Feasible	(P)	3600.8	28928	5.6032	62287	1.0136	20000	24680	45000	3591
p-n=2500-e=20000-q=200-d=0.25.15	Feasible	(STM)	3601.6	33534	202.93	61976	0.77874	20000	42180	82500	0

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filename	status	formulation	time	value	relax_time	relax_value	gap	edges	columns	rows	nodes
p-n=2500-e=20000-q=200-d=0.25.16	Feasible	(U)	3601.2	51456	1.9847	62404	0.094532	20000	24684	45000	539
p-n=2500-e=20000-q=200-d=0.25.16	Feasible	(I)	3600.1	38782	23.962	59195	0.47223	20000	42184	82500	524
p-n=2500-e=20000-q=200-d=0.25.16	Feasible	(L)	3600.6	46166	30.35	59195	0.2356	20000	42184	62500	524
p-n=2500-e=20000-q=200-d=0.25.16	Feasible	(P)	3600.9	35870	6.0011	62080	0.62111	20000	24684	45000	3195
p-n=2500-e=20000-q=200-d=0.25.16	Feasible	(STM)	3601.8	45404	144.6	62005	0.31255	20000	42184	82500	301
p-n=2500-e=20000-q=200-d=0.25.17	Feasible	(U)	3601.8	41508	2.5546	61003	0.33029	20000	24683	45000	493
p-n=2500-e=20000-q=200-d=0.25.17	Feasible	(I)	3600.8	4444	32.085	57728	11.572	20000	42183	82500	523
p-n=2500-e=20000-q=200-d=0.25.17	Feasible	(L)	3600.2	27736	16.779	57728	1.0031	20000	42183	62500	533
p-n=2500-e=20000-q=200-d=0.25.17	Feasible	(P)	3600.1	28346	3.7924	60684	1.0066	20000	24683	45000	6811
p-n=2500-e=20000-q=200-d=0.25.17	Feasible	(STM)	3601.7	41931	44.179	60616	0.38808	20000	42183	82500	201
p-n=2500-e=20000-q=200-d=0.25.18	Feasible	(U)	3600.2	47648	1.9417	61363	0.17088	20000	24710	45000	322
p-n=2500-e=20000-q=200-d=0.25.18	Feasible	(I)	3600.5	49756	33.319	57959	0.12476	20000	42210	82500	497
p-n=2500-e=20000-q=200-d=0.25.18	Feasible	(L)	3600.6	46985	15.997	57959	0.2144	20000	42210	62500	0
p-n=2500-e=20000-q=200-d=0.25.18	Feasible	(P)	3604.1	51000	5.9181	61035	0.11801	20000	24710	45000	3766
p-n=2500-e=20000-q=200-d=0.25.18	Feasible	(STM)	3602	43126	38.208	60945	0.34495	20000	42210	82500	495
p-n=2500-e=20000-q=200-d=0.25.19	Feasible	(U)	3600.1	51544	1.4208	62412	0.089775	20000	24717	45000	540
p-n=2500-e=20000-q=200-d=0.25.19	Feasible	(I)	3600.7	49215	45.198	59160	0.16453	20000	42217	82500	502
p-n=2500-e=20000-q=200-d=0.25.19	Feasible	(L)	3601.1	49843	14.318	59160	0.16905	20000	42217	62500	401
p-n=2500-e=20000-q=200-d=0.25.19	Feasible	(P)	3600.9	50353	5.0392	62123	0.15233	20000	24717	45000	4173
p-n=2500-e=20000-q=200-d=0.25.19	Feasible	(STM)	3601.1	45716	25.225	61909	0.29938	20000	42217	82500	501
p-n=3000-e=24000-q=200-d=0.25.0	Feasible	(U)	3600.1	61069	3.3185	73946	0.10508	24000	29630	54000	492
p-n=3000-e=24000-q=200-d=0.25.0	Feasible	(I)	3601.8	26922	58.349	69880	1.5067	24000	50630	99000	485
p-n=3000-e=24000-q=200-d=0.25.0	Feasible	(L)	3601.2	49780	65.797	69880	0.37838	24000	50630	75000	0
p-n=3000-e=24000-q=200-d=0.25.0	Feasible	(P)	3601.8	40769	7.6768	73578	0.68565	24000	29630	54000	891
p-n=3000-e=24000-q=200-d=0.25.0	Feasible	(STM)	3600.9	52529	85.1	73470	0.34065	24000	50630	99000	189
p-n=3000-e=24000-q=200-d=0.25.1	Feasible	(U)	3601.1	55383	4.1764	74814	0.22563	24000	29608	54000	123
p-n=3000-e=24000-q=200-d=0.25.1	Feasible	(I)	3600.7	30259	66.113	70564	1.2875	24000	50608	99000	458
p-n=3000-e=24000-q=200-d=0.25.1	Feasible	(L)	3603.2	5352	40.376	70564	11.71	24000	50608	75000	458
p-n=3000-e=24000-q=200-d=0.25.1	Feasible	(P)	3601.3	57499	8.0198	74382	0.21036	24000	29608	54000	869
p-n=3000-e=24000-q=200-d=0.25.1	Feasible	(STM)	3600.4	53292	47.403	74399	0.34033	24000	50608	99000	71
p-n=3000-e=24000-q=200-d=0.25.2	Feasible	(U)	3601.6	56923	3.1885	73980	0.17266	24000	29618	54000	479
p-n=3000-e=24000-q=200-d=0.25.2	Feasible	(I)	3601.9	36611	46.508	69879	0.84107	24000	50618	99000	468
p-n=3000-e=24000-q=200-d=0.25.2	Feasible	(L)	3600.8	33311	27.81	69879	1.0176	24000	50618	75000	468
p-n=3000-e=24000-q=200-d=0.25.2	Feasible	(P)	3601.1	58034	9.3336	73590	0.18813	24000	29618	54000	1979
p-n=3000-e=24000-q=200-d=0.25.2	Feasible	(STM)	3608.6	49554	61.474	73589	0.41495	24000	50618	99000	468
p-n=3000-e=24000-q=200-d=0.25.3	Feasible	(U)	3602.3	61479	3.1445	74226	0.10298	24000	29618	54000	480
p-n=3000-e=24000-q=200-d=0.25.3	Feasible	(I)	3602.6	37976	770.86	70240	0.81656	24000	50618	99000	0
p-n=3000-e=24000-q=200-d=0.25.3	Feasible	(L)	3602.6	44412	69.213	70240	0.55713	24000	50618	75000	469
p-n=3000-e=24000-q=200-d=0.25.3	Feasible	(P)	3600.2	56260	6.8929	73843	0.22996	24000	29618	54000	4107
p-n=3000-e=24000-q=200-d=0.25.3	Feasible	(STM)	3602.7	53237	80.692	73693	0.32892	24000	50618	99000	201
p-n=3000-e=24000-q=200-d=0.25.4	Feasible	(U)	3600.8	55337	3.0995	73760	0.21931	24000	29615	54000	264
p-n=3000-e=24000-q=200-d=0.25.4	Feasible	(I)	3600.2	36963	66.271	69780	0.85297	24000	50615	99000	465
p-n=3000-e=24000-q=200-d=0.25.4	Feasible	(L)	3600.5	5322	41.88	69780	11.908	24000	50615	75000	0
p-n=3000-e=24000-q=200-d=0.25.4	Feasible	(P)	3600.9	14442	5.6711	73382	3.7608	24000	29615	54000	5476
p-n=3000-e=24000-q=200-d=0.25.4	Feasible	(STM)	3600.3	53352	148.21	73334	0.31954	24000	50615	99000	187
p-n=3000-e=24000-q=200-d=0.25.5	Feasible	(U)	3600.6	56614	2.3157	74338	0.19695	24000	29621	54000	182
p-n=3000-e=24000-q=200-d=0.25.5	Feasible	(I)	3602	38532	989.3	70207	0.79082	24000	50621	99000	101
p-n=3000-e=24000-q=200-d=0.25.5	Feasible	(L)	3600.8	37101	43.632	70207	0.82992	24000	50621	75000	541
p-n=3000-e=24000-q=200-d=0.25.5	Feasible	(P)	3601.3	57810	5.1422	73957	0.19674	24000	29621	54000	4532
p-n=3000-e=24000-q=200-d=0.25.5	Feasible	(STM)	3602.4	51031	202.59	73864	0.3906	24000	50621	99000	101
p-n=3000-e=24000-q=200-d=0.25.6	Feasible	(U)	3601	52834	2.5656	73780	0.26537	24000	29676	54000	481
p-n=3000-e=24000-q=200-d=0.25.6	Feasible	(I)	3600.9	5332	61.638	69930	11.883	24000	50676	99000	0
p-n=3000-e=24000-q=200-d=0.25.6	Feasible	(L)	3600.2	31485	50.153	69930	1.1507	24000	50676	75000	471
p-n=3000-e=24000-q=200-d=0.25.6	Feasible	(P)	3600.5	57018	6.1021	73422	0.21094	24000	29676	54000	8282
p-n=3000-e=24000-q=200-d=0.25.6	Feasible	(STM)	3601.8	39244	122.19	73201	0.79421	24000	50676	99000	201
p-n=3000-e=24000-q=200-d=0.25.7	Feasible	(U)	3607.2	60816	2.1897	75126	0.12245	24000	29590	54000	452
p-n=3000-e=24000-q=200-d=0.25.7	Feasible	(I)	3601.7	42498	1209.4	71195	0.64651	24000	50590	99000	401
p-n=3000-e=24000-q=200-d=0.25.7	Feasible	(L)	3602.1	34680	14.545	71195	0.97886	24000	50590	75000	596
p-n=3000-e=24000-q=200-d=0.25.7	Feasible	(P)	3600.8	0	7.9318	74782	inf	24000	29590	54000	1351
p-n=3000-e=24000-q=200-d=0.25.7	Feasible	(STM)	3601.9	32639	54.47	74681	1.1972	24000	50590	99000	401
p-n=3000-e=24000-q=200-d=0.25.8	Feasible	(U)	3600.4	61294	2.1917	73800	0.090284	24000	29607	54000	469
p-n=3000-e=24000-q=200-d=0.25.8	Feasible	(I)	3601.5	5320	95.296	69936	11.762	24000	50607	99000	457
p-n=3000-e=24000-q=200-d=0.25.8	Feasible	(L)	3600.9	46321	36.163	69936	0.45392	24000	50607	75000	478
p-n=3000-e=24000-q=200-d=0.25.8	Feasible	(P)	3600.6	37823	8.9606	73434	0.82346	24000	29607	54000	3267
p-n=3000-e=24000-q=200-d=0.25.8	Feasible	(STM)	3601.8	33292	167.68	73470	1.1208	24000	50607	99000	301
p-n=3000-e=24000-q=200-d=0.25.9	Feasible	(U)	3601.3	61037	2.8336	74145	0.10777	24000	29604	54000	465
p-n=3000-e=24000-q=200-d=0.25.9	Feasible	(I)	3600.4	59288	74.472	70188	0.16105	24000	50604	99000	456
p-n=3000-e=24000-q=200-d=0.25.9	Feasible	(L)	3600.8	40394	20.035	70188	0.66879	24000	50604	75000	454
p-n=3000-e=24000-q=200-d=0.25.9	Feasible	(P)	3600.9	60881	7.5529	73758	0.1351	24000	29604	54000	2165
p-n=3000-e=24000-q=200-d=0.25.9	Feasible	(STM)	3600.4	43251	98.095	73721	0.63524	24000	50604	99000	190
p-n=3000-e=24000-q=200-d=0.25.10	Feasible	(U)	3604.4	57504	3.3955	74242	0.17473	24000	29653	54000	458
p-n=3000-e=24000-q=200-d=0.25.10	Feasible	(I)	3602.1	5324	59.024	70232	11.955	24000	50653	99000	504
p-n=3000-e=24000-q=200-d=0.25.10	Feasible	(L)	3600.5	40749	19.744	70232	0.66049	24000	50653	75000	503
p-n=3000-e=24000-q=200-d=0.25.10	Feasible	(P)	3601.6	46130	9.4966	73883	0.49579	24000	29653	54000	2159
p-n=3000-e=24000-q=200-d=0.25.10	Feasible	(STM)	3600.1	52226	52.778	73645	0.35517	24000	50653	99000	503
p-n=3000-e=24000-q=200-d=0.25.11	Feasible	(U)	3606.7	61462	2.6226	74424	0.1031	24000	29636	54000	498
p-n=3000-e=24000-q=200-d=0.25.11	Feasible	(I)	3600.2	33081	1088.7	70440	1.0925	24000	50636	99000	486
p-n=3000-e=24000-q=200-d=0.25.11	Feasible	(L)	3600.5	31068	70.877	70440	1.1919	24000	50636	75000	486
p-n=3000-e=24000-q=200-d=0.25.11	Feasible	(P)	3601.4	38169	6.349	74067	0.81998	24000	29636	54000	2197
p-n=3000-e=24000-q=200-d=0.25.11	Feasible	(STM)	3600.8	41954	62.087	73965	0.69821	24000	50636	99000	0

Table with Means and Standard Deviations

group	formulation	optimal	feasible	time	time_d	relax_time	relax_time_d	nodes	nodes_d	gap	gap_d	gap_improvement
p-n=500-e=4000-q=200-d=0.25	(U)	0	20	3600.1	0.048073	0.14313	0.034121	11981	1829.8	0.033033	0.0091017	0.12852
p-n=500-e=4000-q=200-d=0.25	(I)	0	20	3600.2	0.11969	2.6909	0.66179	7518.4	1802.1	0.042631	0.01014	0.060323
p-n=500-e=4000-q=200-d=0.25	(L)	0	20	3600.2	0.10895	1.4284	0.23066	10563	2813.3	0.032001	0.0092344	0.067882
p-n=500-e=4000-q=200-d=0.25	(P)	0	20	3600.2	0.079366	0.41154	0.078849	56401	13162	0.055363	0.010754	0.098484
p-n=500-e=4000-q=200-d=0.25	(STM)	0	20	3600.3	0.12728	2.301	0.58875	7544.4	2136.9	0.10614	0.017733	0.061581
p-n=1000-e=8000-q=200-d=0.25	(U)	0	20	3600.4	0.42448	0.40879	0.073137	4239.8	1420.2	0.055863	0.015559	0.11128
p-n=1000-e=8000-q=200-d=0.25	(I)	0	20	3600.6	0.43439	7.1762	2.1786	2274.6	889.66	0.091002	0.031465	0.043043
p-n=1000-e=8000-q=200-d=0.25	(L)	0	20	3600.4	0.25806	4.4906	0.66709	3178.7	687.64	0.078219	0.028875	0.042484
p-n=1000-e=8000-q=200-d=0.25	(P)	0	20	3600.4	0.45634	1.1975	0.24202	13237	3025.3	0.091994	0.058986	0.08103
p-n=1000-e=8000-q=200-d=0.25	(STM)	0	20	3600.5	0.24633	8.7778	3.1042	1238.2	597.46	0.19839	0.064772	0.061416
p-n=1500-e=12000-q=200-d=0.25	(U)	0	20	3600.5	0.36337	0.79913	0.16976	1388.8	916.23	0.082484	0.046069	0.10847
p-n=1500-e=12000-q=200-d=0.25	(I)	0	20	3600.5	0.32549	32.408	43.2	830.05	438.77	0.97715	2.46	0.039261
p-n=1500-e=12000-q=200-d=0.25	(L)	0	20	3600.5	0.32387	8.0586	2.4291	1144.6	522.29	0.80212	2.4895	0.038338
p-n=1500-e=12000-q=200-d=0.25	(P)	0	20	3600.5	0.26637	2.3423	0.61529	8393.8	1738.6	0.2166	0.12783	0.075514
p-n=1500-e=12000-q=200-d=0.25	(STM)	0	20	3600.7	0.35565	25.356	15.348	551	56.828	0.26666	0.09531	0.06014
p-n=2000-e=16000-q=200-d=0.25	(U)	0	20	3600.5	0.31665	1.3466	0.33176	575.95	135.01	0.081491	0.017962	0.1126
p-n=2000-e=16000-q=200-d=0.25	(I)	0	20	3600.8	0.48224	57.344	125.6	503.45	50.528	2.1801	3.9698	0.038758
p-n=2000-e=16000-q=200-d=0.25	(L)	0	20	3600.7	0.47037	12.471	3.2472	635.6	167.46	1.3217	3.0486	0.03953
p-n=2000-e=16000-q=200-d=0.25	(P)	0	20	3600.8	0.40696	3.7574	1.1286	6278.2	1398.3	0.53785	0.78304	0.07324
p-n=2000-e=16000-q=200-d=0.25	(STM)	0	20	3602.4	3.7392	40.44	24.571	410.7	157.6	0.45521	0.16001	0.051248
p-n=2500-e=20000-q=200-d=0.25	(U)	0	20	3601.2	2.0139	1.9934	0.47989	498.45	79.698	0.15071	0.070598	0.10672
p-n=2500-e=20000-q=200-d=0.25	(I)	0	20	3601.2	1.5855	128.66	261.98	464.25	126.03	2.8627	4.4806	0.030497
p-n=2500-e=20000-q=200-d=0.25	(L)	0	20	3600.6	0.33158	24.386	10.815	489.6	120.39	3.2777	4.874	0.034795
p-n=2500-e=20000-q=200-d=0.25	(P)	0	20	3601.1	0.96943	5.2111	1.2211	4478.9	1383.8	Inf	NaN	0.069455
p-n=2500-e=20000-q=200-d=0.25	(STM)	0	20	3602.1	2.4169	74.434	51.182	380.75	169.91	0.47007	0.20163	0.042015
p-n=3000-e=24000-q=200-d=0.25	(U)	0	20	3603.3	6.6899	2.7972	0.75566	412.05	114.78	0.17739	0.063667	0.098938
p-n=3000-e=24000-q=200-d=0.25	(I)	0	20	3601	0.78717	249.73	389.43	400.85	156.61	3.588	4.7695	0.0233
p-n=3000-e=24000-q=200-d=0.25	(L)	0	20	3601.1	0.83761	37.22	19.354	395.3	189.37	2.9845	4.3844	0.032136
p-n=3000-e=24000-q=200-d=0.25	(P)	0	20	3600.9	0.4568	7.1675	2.2169	3365.9	2765.2	Inf	NaN	0.064216
p-n=3000-e=24000-q=200-d=0.25	(STM)	0	20	3601.7	1.8549	92.167	59.038	214.35	156.18	0.66203	0.37416	0.041789