

iterHeur

file	itNbItems	UpperBound	SolutionCost	ElapsedSeconds	gap	HeurSolutionCost	HeurElapsedSeconds	Heurgap
courseExample.in	8	38	38	5.348e-06	0	38	1.2824e-05	0
kp_100_1.in	100	41752	41700	4.111e-06	0.1247	41700	0.0446288	0.1247
kp_100_2.in	100	38441	38331	3.053e-06	0.286974	38400	0.0473832	0.106771
kp_1000_1.in	1000	396700	396644	1.7602e-05	0.0141185	396688	0.227716	0.00302505
kp_1000_2.in	1000	407935	407930	1.6087e-05	0.0012257	407933	0.214806	0.000490277
kp_10000_1.in	10000	4092641	4092640	0.000147486	2.44341e-05	4092641	0.211654	0
kp_10000_1_0.1.in	10000	1296681	1296500	4.9111e-05	0.0139607	1296678	0.0762507	0.00023136
kp_10000_1_0.01.in	10000	417235	416537	1.439e-05	0.167572	417231	0.0229095	0.000958702
kp_10000_1_0.02.in	10000	585034	584756	2.0407e-05	0.0475412	585031	0.0345342	0.000512793
kp_10000_1_0.03.in	10000	714797	714667	2.2138e-05	0.0181903	714788	0.0419824	0.00125911
kp_10000_1_0.04.in	10000	823225	823064	2.6719e-05	0.0195611	823225	0.0495285	0
kp_10000_1_0.05.in	10000	919171	918954	2.8203e-05	0.0236138	919169	0.0553132	0.000217588
kp_10000_2.in	10000	4085793	4085714	0.000134371	0.00193357	4085792	0.21198	2.44751e-05
kp_100000_1.in	100000	40686622	40686541	0.00124291	0.000199083	40686622	0.215883	0
kp_100000_2.in	100000	40542543	40542483	0.00126026	0.000147993	40542543	0.211587	0
kp_1000_1.in	100	43680	43503	3.433e-06	0.406868	43649	0.00502921	0.0710211
kp_1000_2.in	100	50950	50930	2.989e-06	0.0392696	50930	0.00514026	0.0392696
kp_10000_1.in	100	45306	45285	2.622e-06	0.046373	45285	0.000468962	0.046373
kp_10000_1_0.1.in	100	12509	12372	1.609e-06	1.10734	12500	8.0162e-05	0.072
kp_10000_1_0.01.in	100	1771	1771	1.089e-06	0	1771	3.1866e-05	0
kp_10000_1_0.02.in	100	4057	4057	1.178e-06	0	4057	3.3685e-05	0
kp_10000_1_0.03.in	100	5534	5534	1.21e-06	0	5534	3.6201e-05	0
kp_10000_1_0.04.in	100	6880	6874	9.18e-07	0.0872854	6874	4.2443e-05	0.0872854
kp_10000_1_0.05.in	100	8087	8003	9.94e-07	1.04961	8003	4.8672e-05	1.04961
kp_10000_2.in	100	49773	49631	2.157e-06	0.286112	49738	0.000576027	0.0703687
kp_100000_1.in	100	45608	45608	3.5e-06	0	45608	0.000128711	0
kp_100000_2.in	100	45530	45528	2.685e-06	0.0043929	45528	0.000157958	0.0043929
kp_10000_1.in	1000	471135	471120	1.4713e-05	0.0031839	471126	0.0244384	0.00191032
kp_10000_1_0.1.in	1000	150519	150508	5.645e-06	0.00730858	150509	0.00601001	0.00664412
kp_10000_1_0.01.in	1000	46609	46427	3.02e-06	0.392013	46562	0.000964368	0.100941
kp_10000_1_0.02.in	1000	68104	67646	4.135e-06	0.677054	68101	0.00191904	0.00440522
kp_10000_1_0.03.in	1000	83874	83874	4.329e-06	0	83874	0.00302038	0
kp_10000_1_0.04.in	1000	96750	96750	7.926e-06	0	96750	0.00322327	0
kp_10000_1_0.05.in	1000	107977	107937	4.862e-06	0.0370587	107976	0.00385615	0.000926132
kp_10000_2.in	1000	474616	474609	1.4518e-05	0.0014749	474612	0.0286443	0.000842794
kp_100000_1.in	1000	469129	468803	1.8779e-05	0.0695388	469128	0.0030959	0.000213161
kp_100000_2.in	1000	477563	477552	1.6272e-05	0.00230341	477563	0.00290896	0
kp_100000_1.in	10000	4687329	4686888	0.000133517	0.00940923	4687329	0.0328535	0
kp_100000_2.in	10000	4688174	4688153	0.000139114	0.000447938	4688174	0.0305249	0

iterHeur-1

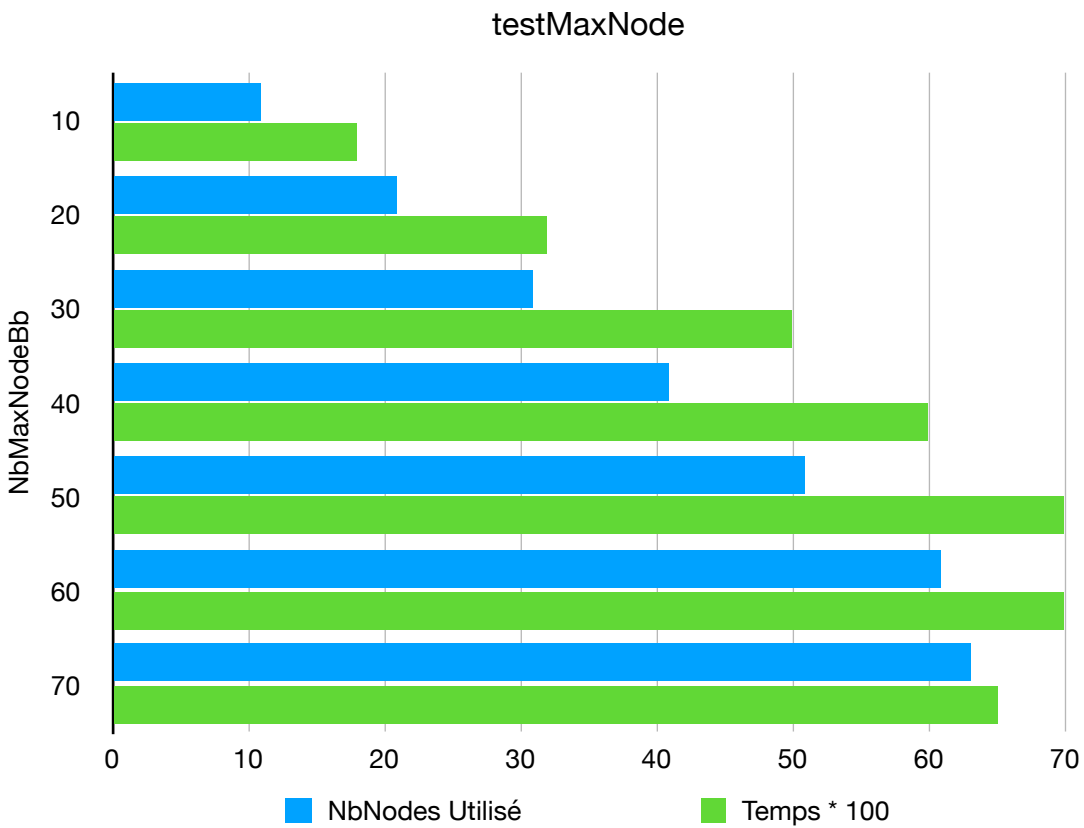
file	itNbItems	UpperBound	SolutionCost	ElapsedSeconds	HeurSolutionCost	ElapsedSeconds
<b>instances/kp_100_1.in</b>	<b>-1</b>	<b>41752</b>	<b>41700</b>	<b>1.3081e-05</b>	<b>41700</b>	<b>0.0270771</b>
instances/kp_100_2.in	-1	38441	38367	4.551e-06	38400	0.0352644
instances/kp_1000_1.in	-1	396700	396644	3.949e-05	396688	0.18075
instances/kp_1000_2.in	-1	407935	407930	3.8675e-05	407933	0.31972
instances/kp_10000_1.in	-1	4092641	4092640	0.000404051	4092641	0.19253
instances/kp_10000_1_0.1.in	-1	1296681	1296663	0.000254999	1296678	0.0716537
instances/kp_10000_1_0.01.in	-1	417235	417210	0.000203417	417231	0.025788
instances/kp_10000_1_0.02.in	-1	585034	584993	0.000225498	585031	0.0371677
instances/kp_10000_1_0.03.in	-1	714797	714764	0.000255962	714788	0.0441911
instances/kp_10000_1_0.04.in	-1	823225	823208	0.00023143	823225	0.0459016
instances/kp_10000_1_0.05.in	-1	919171	919134	0.00021906	919169	0.0521017
instances/kp_10000_2.in	-1	4085793	4085773	0.000354781	4085792	0.174047
instances/kp_100000_1.in	-1	40686915	40686621	0.0035062	40686622	0.107978
instances/kp_100000_2.in	-1	40542690	40542542	0.00413585	40542543	0.123872
instances/kp_1000_1.in	100	43680	43503	5.626e-06	43649	0.00277757
instances/kp_1000_2.in	100	50950	50930	4.613e-06	50930	0.00236665
instances/kp_10000_1.in	100	45306	45285	4.786e-06	45285	0.00432915
instances/kp_10000_1_0.1.in	100	12509	12372	3.437e-06	12500	0.00414805
instances/kp_10000_1_0.01.in	100	1771	1771	3.155e-06	1771	0.000159728
instances/kp_10000_1_0.02.in	100	4057	4057	2.714e-06	4057	0.000782959
instances/kp_10000_1_0.03.in	100	5534	5534	2.939e-06	5534	0.000169719
instances/kp_10000_1_0.04.in	100	6880	6874	2.932e-06	6874	0.000169809
instances/kp_10000_1_0.05.in	100	8087	8003	3.244e-06	8003	0.000183782
instances/kp_10000_2.in	100	49773	49631	4.535e-06	49738	0.00426238
instances/kp_100000_1.in	100	45608	45608	6.529e-06	45608	0.00415208
instances/kp_100000_2.in	100	45530	45528	5.579e-06	45528	0.000383197
instances/kp_10000_1.in	1000	471135	471120	3.8621e-05	471126	0.0143821
instances/kp_10000_1_0.1.in	1000	150519	150508	2.5824e-05	150509	0.0151962
instances/kp_10000_1_0.01.in	1000	46609	46487	2.1715e-05	46562	0.00744349
instances/kp_10000_1_0.02.in	1000	68104	68070	2.203e-05	68101	0.00914337
instances/kp_10000_1_0.03.in	1000	83874	83874	2.2522e-05	83874	0.0016503
instances/kp_10000_1_0.04.in	1000	96750	96750	2.2809e-05	96750	0.00189532
instances/kp_10000_1_0.05.in	1000	107977	107937	2.3069e-05	107976	0.00321094
instances/kp_10000_2.in	1000	474616	474609	4.3297e-05	474612	0.0243024
instances/kp_100000_1.in	1000	469129	469128	4.0859e-05	469128	0.0018671
instances/kp_100000_2.in	1000	477563	477552	4.0108e-05	477563	0.0114627
instances/kp_100000_1.in	10000	4687329	4687329	0.000218231	4687329	0.0347627
instances/kp_100000_2.in	10000	4688174	4688166	0.000376455	4688174	0.0175402

# testMaxDPSize

itNbItems	ElapsedSeconds	Gap	DP_ElapsedSeconds	DP_Gap
<b>300</b>	1.2897e-05	0.139616	0.00218759	0.00071867
<b>500</b>	1.2829e-05	0.00519009	0.00895757	0.00259498
<b>700</b>	1.5706e-05	0.0593109	0.0231785	0.00061426
<b>900</b>	1.7747e-05	0	0.0533567	0
<b>1000</b>	1.7711e-05	0.0695388	0.0639643	0.000213161
<b>1200</b>	2.1226e-05	0.0492589	0.103553	0.000352938
<b>1400</b>	2.8499e-05	0	0.168037	0
<b>1600</b>	2.7584e-05	0.00567395	0.261745	0.000527782
<b>2000</b>	3.3871e-05	0.00348394	0.560938	0
<b>3000</b>	5.5005e-05	0	1.64168	0
<b>4000</b>	5.5809e-05	0	3.92409	0
<b>5000</b>	0.00012249	0.00641394	9.25464	0
<b>7000</b>	0.000152961	0.000607586	25.9815	0
<b>10000</b>	0.000158656	0.00940923	69.8053	0

testMaxNode-1			
NbMaxNodeBb	NbNodes Utilisé	Temps * 100	Gap
100	200	27	0.0119161
200	297	28	0.00383258
300	409	27	0.00357969
1000	1134	44	0.00314742
2000	2043	69	0.00228916
3000	3003	82	0.00121559
5000	3006	83	0
10000	2710	76	0

testMaxNode			
NbMaxNodeBb	NbNodes Utilisé	Temps * 100	Gap
10	11	16	0
20	21	29	0
30	31	43	0
40	41	54	0
50	51	72	0
60	61	88	0
70	63	67	1.78785e-06



testMaxNode-2			
NbMaxNodeBb	NbNodes Utilisé	Temps * 100	Gap
10	11	18	2.45781e-06
20	21	32	2.45781e-06
30	31	50	2.45781e-06
40	41	60	2.45781e-06
50	51	72	2.45781e-06
60	61	83	2.45781e-06
70	63	65	0

testNodes			
Stratégie Branching	NbNodes	Temps	Temps * 100
Sans Heur Gloutons - DFS01	6175	129.348	12934
Heur DP - DFS01	77	57.9853	5798
Heur Gloutons - DFS01	77	57.7091	5770
Heur DP - BestBound	1333	7.5068	750
Heur Gloutons - BestBound	1333	7.27207	727
Sans Heur Gloutons - BestBound	3743	6.18128	618
Heur DP - DFS10	158	4.60378	460
Heur Gloutons - DFS10	158	4.38638	438
Heur DP - Random	590	3.24225	324
Sans Heur Gloutons - DFS10	158	3.16604	316
Sans Heur Gloutons - Random	598	2.01227	201
Heur Gloutons - Random	336	1.56269	156
Heur DP - BFS	538	1.47915	147
Heur Gloutons - BFS	538	1.24498	124
Sans Heur Gloutons - BFS	538	0.897526	89

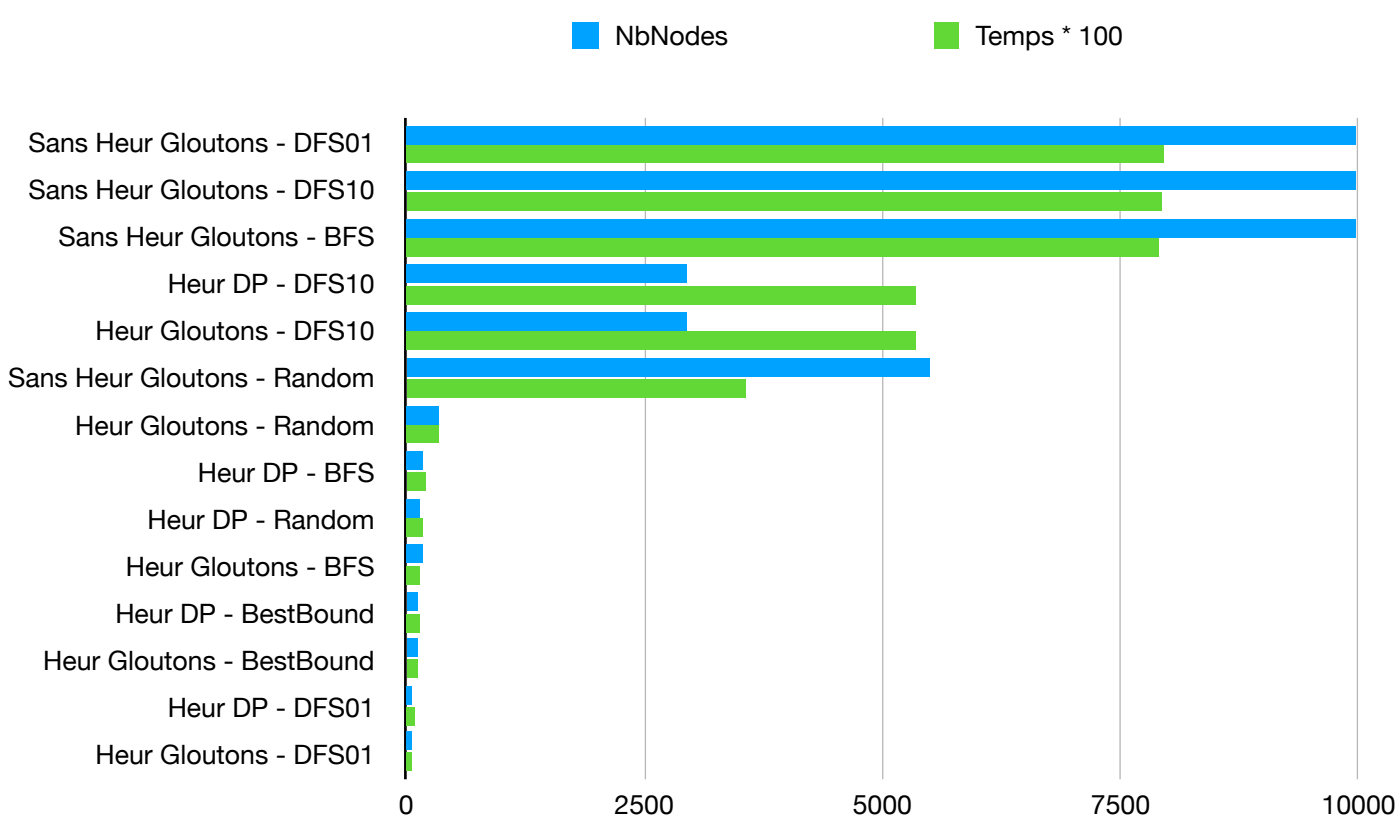
testNodes-1			
Stratégie Branching	NbNodes	Temps	Temps * 100
Sans Heur Gloutons - DFS01	101894	127.469	12746
Heur DP - DFS01	30127	58.3873	5838
Heur Gloutons - DFS01	30127	58.2527	5825
Heur DP - BestBound	5065	7.57074	757
Heur Gloutons - BestBound	5065	7.29156	729
Sans Heur Gloutons - BestBound	7484	5.98394	598
Sans Heur Gloutons - Random	5830	5.74369	574
Heur DP - DFS10	2285	4.67322	467
Heur Gloutons - DFS10	2285	4.37659	437
Sans Heur Gloutons - DFS10	2285	3.18131	318
Heur DP - Random	1068	1.97515	197
Heur DP - BFS	1083	1.52217	152
Heur Gloutons - BFS	1083	1.23906	123
Sans Heur Gloutons - BFS	1083	0.902609	90
Heur Gloutons - Random	360	0.359538	35

testNodes-2			
Stratégie Branching	NbNodes	Temps	Temps * 100
Sans Heur Gloutons - DFS01	100000	115.584	11558
Heur Gloutons - DFS01	30127	53.9327	5393
Heur DP - DFS01	30127	53.7457	5374
Heur DP - BestBound	5065	7.27777	727
Heur Gloutons - BestBound	5065	6.4989	649
Sans Heur Gloutons - BestBound	7484	5.3477	534
Heur DP - Random	2800	5.14893	514
Heur DP - DFS10	2285	4.25179	425
Heur Gloutons - DFS10	2285	3.90744	390
Sans Heur Gloutons - DFS10	2285	3.19944	319
Heur DP - BFS	1083	1.40923	140
Heur Gloutons - BFS	1083	1.22905	122
Sans Heur Gloutons - Random	1318	0.86845	86
Sans Heur Gloutons - BFS	1083	0.851233	85
Heur Gloutons - Random	320	0.366017	36

testNodes-3			
Stratégie Branching	NbNodes	Temps	Temps * 100
Sans Heur Gloutons - DFS01	100000	117.66	11766
Heur DP - DFS01	30128	57.0247	5702
Heur Gloutons - DFS01	30128	56.69	5668
Heur DP - BestBound	5066	7.13985	713
Heur Gloutons - BestBound	5066	6.52159	652
Sans Heur Gloutons - BestBound	7485	5.72445	572
Heur DP - DFS10	2286	4.51614	451
Heur Gloutons - DFS10	2286	4.21484	421
Sans Heur Gloutons - Random	4077	3.83282	383
Sans Heur Gloutons - DFS10	2286	2.94021	294
Heur DP - BFS	1084	1.37294	137
Heur Gloutons - BFS	1084	1.20154	120
Heur Gloutons - Random	803	1.1618	116
Sans Heur Gloutons - BFS	1084	0.81773	81
Heur DP - Random	49	0.279364	27

testNodes-4			
Stratégie Branching	NbNodes	Temps	Temps * 100
Heur DP - DFS10	2944	57.4151	5741
Heur Gloutons - DFS10	2944	54.9501	5495
Heur DP - Random	355	3.70929	370
Heur DP - BFS	163	1.89731	189
Heur Gloutons - BFS	163	1.59677	159
Heur DP - BestBound	119	1.56799	156
Heur Gloutons - BestBound	119	1.18814	118
Heur DP - DFS01	63	0.953887	95
Heur Gloutons - DFS01	63	0.660795	66
Heur Gloutons - Random	27	0.278185	27

testNodes-5			
Stratégie Branching	NbNodes	Temps	Temps * 100
Sans Heur Gloutons - DFS01	10001	79.5317	7953
Sans Heur Gloutons - DFS10	10001	79.1637	7916
Sans Heur Gloutons - BFS	10001	79.0964	7909
Heur DP - DFS10	2944	53.5077	5350
Heur Gloutons - DFS10	2944	53.4239	5342
Sans Heur Gloutons - Random	5507	35.6458	3564
Heur Gloutons - Random	355	3.35483	335
Heur DP - BFS	163	1.89065	189
Heur DP - Random	155	1.81971	181
Heur Gloutons - BFS	163	1.55147	155
Heur DP - BestBound	119	1.44374	144
Heur Gloutons - BestBound	119	1.14235	114
Heur DP - DFS01	63	0.905999	90
Heur Gloutons - DFS01	63	0.633023	63



# testStrategiesBB

File	Algo	Strategy	Time	Nb Noeuds	gap
<u>kp 100 2.in</u>	Greedy		1.5979e-05		
<u>kp 100 2.in</u>	B&B	BestBound	0.00527021	465	0
<u>kp 100 2.in</u>	B&B	DFS10	0.0062074	509	0
<u>kp 100 2.in</u>	B&B	DFS01	0.010534	1046	0
<u>kp 100 2.in</u>	B&B	BFS	0.0619173	10000	0.349842
<u>kp 100 2.in</u>	B&B	Random	0.0568354	10000	0.352462
<u>kp 100 2.in</u>	B&B - Heur	BestBound	0.00200997	221	0
<u>kp 100 2.in</u>	B&B - Heur	DFS10	0.00403069	464	0
<u>kp 100 2.in</u>	B&B - Heur	DFS01	0.00575556	554	0
<u>kp 100 2.in</u>	B&B - Heur	BFS	0.00199897	238	0
<u>kp 100 2.in</u>	B&B - Heur	Random	0.0020533	238	0
<u>kp 100 2.in</u>	B&B - HeurDP	BestBound	0.0345479	220	0
<u>kp 100 2.in</u>	B&B - HeurDP	DFS10	0.0340457	220	0
<u>kp 100 2.in</u>	B&B - HeurDP	DFS01	0.0336526	220	0
<u>kp 100 2.in</u>	B&B - HeurDP	BFS	0.036137	220	0
<u>kp 100 2.in</u>	B&B - HeurDP	Random	0.0371226	220	0
<u>kp 1000 2.in</u>	Greedy		3.8836e-05		
<u>kp 1000 2.in</u>	B&B	BestBound	0.0254646	519	0
<u>kp 1000 2.in</u>	B&B	DFS10	0.0357956	799	0
<u>kp 1000 2.in</u>	B&B	DFS01	0.463291	10000	0.00465782
<u>kp 1000 2.in</u>	B&B	BFS	0.0447619	2036	0
<u>kp 1000 2.in</u>	B&B	Random	0.155558	6841	0
<u>kp 1000 2.in</u>	B&B - Heur	BestBound	0.0204405	279	0
<u>kp 1000 2.in</u>	B&B - Heur	DFS10	0.0270283	357	0
<u>kp 1000 2.in</u>	B&B - Heur	DFS01	0.0455913	603	0
<u>kp 1000 2.in</u>	B&B - Heur	BFS	0.0163411	225	0
<u>kp 1000 2.in</u>	B&B - Heur	Random	0.0166965	227	0
<u>kp 1000 2.in</u>	B&B - HeurDP	BestBound	0.0526017	134	0
<u>kp 1000 2.in</u>	B&B - HeurDP	DFS10	0.0556346	134	0
<u>kp 1000 2.in</u>	B&B - HeurDP	DFS01	0.0633728	134	0
<u>kp 1000 2.in</u>	B&B - HeurDP	BFS	0.057247	134	0
<u>kp 1000 2.in</u>	B&B - HeurDP	Random	0.0547372	134	0

<b>kp 10000 2.in</b>	Greedy		0.000357782		
<b>kp 10000 2.in</b>	B&B	BestBound	8.98718	10000	inf
<b>kp 10000 2.in</b>	B&B	DFS10	3.49432	10000	0.000391602
<b>kp 10000 2.in</b>	B&B	DFS01	2.67211	10000	9.79003e-05
<b>kp 10000 2.in</b>	B&B	BFS	0.478553	2137	0
<b>kp 10000 2.in</b>	B&B	Random	1.10066	5297	0
<b>kp 10000 2.in</b>	B&B - Heur	BestBound	0.352877	548	0
<b>kp 10000 2.in</b>	B&B - Heur	DFS10	7.07551	10000	0.000342652
<b>kp 10000 2.in</b>	B&B - Heur	DFS01	2.46661	3661	0
<b>kp 10000 2.in</b>	B&B - Heur	BFS	0.645393	1205	0
<b>kp 10000 2.in</b>	B&B - Heur	Random	0.690555	1300	0
<b>kp 10000 2.in</b>	B&B - HeurDP	BestBound	0.466908	497	0
<b>kp 10000 2.in</b>	B&B - HeurDP	DFS10	0.470138	497	0
<b>kp 10000 2.in</b>	B&B - HeurDP	DFS01	0.467642	497	0
<b>kp 10000 2.in</b>	B&B - HeurDP	BFS	0.47256	497	0
<b>kp 10000 2.in</b>	B&B - HeurDP	Random	0.464191	497	0
<b>kp 100000 2.in</b>	Greedy		0.00186504		
<b>kp 100000 2.in</b>	B&B	BestBound	42.6763	10000	inf
<b>kp 100000 2.in</b>	B&B	DFS10	40.5538	10000	inf
<b>kp 100000 2.in</b>	B&B	DFS01	43.4309	10000	inf
<b>kp 100000 2.in</b>	B&B	BFS	23.5839	10000	0
<b>kp 100000 2.in</b>	B&B	Random	6.41691	2977	0
<b>kp 100000 2.in</b>	B&B - Heur	BestBound	0.533048	131	0
<b>kp 100000 2.in</b>	B&B - Heur	DFS10	78.3633	10000	2.46654e-06
<b>kp 100000 2.in</b>	B&B - Heur	DFS01	0.144618	37	0
<b>kp 100000 2.in</b>	B&B - Heur	BFS	0.821749	219	0
<b>kp 100000 2.in</b>	B&B - Heur	Random	0.860631	243	0
<b>kp 100000 2.in</b>	B&B - HeurDP	BestBound	0.0410145	1	0
<b>kp 100000 2.in</b>	B&B - HeurDP	DFS10	0.0473219	1	0
<b>kp 100000 2.in</b>	B&B - HeurDP	DFS01	0.0479241	1	0
<b>kp 100000 2.in</b>	B&B - HeurDP	BFS	0.0487336	1	0
<b>kp 100000 2.in</b>	B&B - HeurDP	Random	0.0474729	1	0

testSolution

File	Nb Noeuds	Upperbound	Solution	gap	Time
kp_100_1.in	91	41700	41700	0	0.0394174
kp_100_2.in	220	38400	38400	0	0.0423227
kp_1000_1.in	1693	396688	396688	0	0.294811
kp_1000_2.in	134	407933	407933	0	0.0558726
kp_10000_1.in	1	4.09264e+06	4092641	0	0.0374066
kp_10000_1_0.1.in	1441	1.29668e+06	1296678	0	0.843554
kp_10000_1_0.01.in	99	417231	417231	0	0.0775613
kp_10000_1_0.02.in	490	585031	585031	0	0.302036
kp_10000_1_0.03.in	1995	714788	714788	0	0.974675
kp_10000_1_0.04.in	1	823225	823225	0	0.00889838
kp_10000_1_0.05.in	26	919169	919169	0	0.0321018
kp_10000_2.in	497	4.08579e+06	4085792	0	0.5501
kp_100000_1.in	1	4.06866e+07	40686622	0	0.0433814
kp_100000_2.in	1	4.05425e+07	40542543	0	0.0514366

HeurDP

File	Upperbound	Solution	gap	Time
kp_100_1.in	41700	41700	0	0.0712656
kp_100_2.in	38400	38400	0	0.0726921
kp_1000_1.in	396688	396688	0	7.2408
kp_1000_2.in	407933	407933	0	6.59421

Greedy

File	Upperbound	Solution	gap	Time
kp_100_1.in	41752	41700	0.001247	2.8903e-05
kp_100_2.in	38441	38367	0.00192874	5.097e-06
kp_1000_1.in	396700	396644	0.000141185	2.3877e-05
kp_1000_2.in	407935	407930	1.2257e-05	2.4815e-05
kp_10000_1.in	4092641	4092640	2.44341e-07	0.000229979
kp_10000_1_0.1.in	1296681	1296663	1.38818e-05	0.000147471
kp_10000_1_0.01.in	417235	417210	5.99219e-05	0.000136089
kp_10000_1_0.02.in	585034	584993	7.00863e-05	0.000176912
kp_10000_1_0.03.in	714797	714764	4.61691e-05	0.000127502
kp_10000_1_0.04.in	823225	823208	2.06509e-05	0.000123702
kp_10000_1_0.05.in	919171	919134	4.02553e-05	0.00014272
kp_10000_2.in	4085793	4085773	4.89503e-06	0.000212613
kp_100000_1.in	40686915	40686621	7.22596e-06	0.00212569
kp_100000_2.in	40542690	40542542	3.65049e-06	0.00202093



testComplexe

Nb Instance	BestBound	DFS10	DFS01	BFS	Random	Heur - BestBound	Heur - DFS10	Heur - FS01	Heur - BFS	Heur - Random	NULL
100	4.4261e-05	1.2897e-05	1.1852e-05	1.1659e-05	2.1177e-05	1.0773e-05	1.07e-05	1.0927e-05	1.072e-05	1.1365e-05	
200	6.4749e-05	1.7039e-05	1.6666e-05	1.612e-05	1.7234e-05	1.4866e-05	1.5248e-05	1.4961e-05	1.5234e-05	1.5129e-05	
300	0.000142092	8.8387e-05	8.4199e-05	0.000226553	0.0001652	6.5948e-05	6.6066e-05	6.5589e-05	6.5885e-05	6.5612e-05	
400	0.000265364	0.000280035	0.000252671	0.000324515	0.000356589	0.000360653	0.000475583	0.000513769	0.00034963	0.000356585	
500	0.00141422	0.00244777	0.00104803	0.00296686	0.00231411	0.00220545	0.00422047	0.00190157	0.00442451	0.00429548	
600	5.4822e-05	4.385e-05	4.2871e-05	4.3681e-05	4.4674e-05	3.9033e-05	3.8664e-05	5.3362e-05	3.9538e-05	0.000155688	
700	0.000562035	0.000958292	0.000359346	0.00134924	0.000987856	0.000941667	0.00140948	0.000604881	0.00202283	0.0014246	
800	0.00221085	0.00161597	0.00700619	0.00332607	0.00432614	0.00189573	0.00188708	0.00207714	0.00190331	0.00191564	
900	0.000103842	5.8326e-05	0.000122896	0.000195349	9.5491e-05	9.0635e-05	8.7833e-05	8.6197e-05	8.7508e-05	8.3322e-05	
1000	0.000685618	0.000262336	0.000257707	0.000344507	0.000264376	0.00032555	0.000303161	0.000299539	0.000301461	0.000300852	
1100	0.00165274	0.00330455	0.0153859	0.00208652	0.00223546	0.00125639	0.00525362	0.00174923	0.0033184	0.00325375	
1200	0.00510499	0.0172406	0.00864933	0.00568663	0.00578525	0.0080404	0.0318406	0.0120374	0.0092286	0.00632266	
1300	0.00045261	0.00433069	0.000268892	0.000506322	0.000569469	0.000735405	0.0105359	0.000446928	0.000879419	0.00144659	
1400	0.000533601	0.000488027	0.0192139	0.00108107	0.00207439	0.000100227	8.4392e-05	8.5531e-05	8.4759e-05	8.4921e-05	
1500	0.00889158	0.00405525	0.0163295	0.00391226	0.00677149	0.0149308	0.00636166	0.0112251	0.00734645	0.00363031	
1600	0.0173301	0.0247161	0.026724	0.0156586	0.0152098	0.013462	0.0429422	0.0138307	0.0164298	0.0155783	
1700	0.00260758	0.0489007	0.000891813	0.00137375	0.00127451	0.00430225	0.0903511	0.00157228	0.00214277	0.00192287	
1800	0.000787818	0.00411643	0.0270564	0.00108049	0.00113774	0.00122867	0.00127074	0.00100067	0.000748133	0.000474563	
1900	0.00102571	0.0507532	0.0327291	0.00293278	0.00457376	0.000824825	0.0951213	0.00104129	0.00144436	0.00597181	
2000	0.00890462	0.061835	0.000549207	0.000798632	0.00556406	0.00112829	0.0878707	0.000344688	0.000342738	0.00173119	
2100	0.0134374	0.0391447	0.0670053	0.00423043	0.00767145	0.0139486	0.0551014	0.105225	0.00612582	0.00830441	
2200	0.00150655	0.0569339	0.0487984	0.000538084	0.000678911	0.000410972	0.104551	0.000426635	0.000397844	0.000382712	
2300	0.0297615	0.0617408	0.00487091	0.0239921	0.0228151	0.0178706	0.109134	0.00762758	0.0200085	0.0168494	
2400	0.0028983	0.0653925	0.000892138	0.00357862	0.00549443	0.00526028	0.0914867	0.00138686	0.0055148	0.00627674	
2500	0.0106289	0.00187263	0.0696898	0.00186825	0.00196933	0.00305839	0.00304829	0.00303013	0.00303229	0.00303308	
2600	0.0203365	0.0417502	0.0288823	0.0067705	0.00679817	0.0253697	0.065529	0.00772811	0.00335998	0.00135358	
2700	0.000640059	0.000380281	0.00524103	0.000583335	0.000308658	0.00022191	0.000177722	0.000175505	0.000181617	0.000181977	
2800	0.0303735	0.00306602	0.0838651	0.0334942	0.0764519	0.00490742	0.00476908	0.00468089	0.00478784	0.00484631	
2900	0.057669	0.0121224	0.0871311	0.00705994	0.00858759	0.00784981	0.00810971	0.00827126	0.00935134	0.00879374	
3000	0.0010352	0.000475931	0.144665	0.00105638	0.00196573	0.000187438	0.000174883	0.000184936	0.000176481	0.00017576	
3100	0.224996	0.348127	0.00908906	0.00583718	0.00783156	0.0044251	0.582179	0.00447639	0.00533207	0.0190374	
3200	0.0148683	0.578195	0.0759529	0.0162937	0.0164436	0.020536	1.01852	0.00264951	0.0131952	0.016799	
3300	0.0175067	0.835382	0.200069	0.00700259	0.0061917	0.0351797	1.6578	0.03429	0.00815145	0.00479167	
3400	0.00562237	0.811028	0.00419749	0.00644007	0.007176	0.000851237	1.41232	0.000784922	0.00114607	0.000803594	
3500	0.102289	0.218115	1.15657	0.042242	0.0604327	0.0263678	0.34449	0.562797	0.0378196	0.0349676	
3600	0.060503	0.902321	0.686315	0.0178989	0.0419792	0.00513489	1.34182	0.00532612	0.0286425	0.0208428	
3700	0.0315839	1.29797	0.0013292	0.0117972	0.0555	0.0549136	2.26821	0.00235209	0.0140107	0.054853	
3800	0.0123996	0.166928	0.718334	0.0137379	0.0270497	0.0161789	0.293006	0.21328	0.0059292	0.00578623	
3900	0.000271793	0.000263096	0.000296343	0.000262338	0.000280254	0.000274596	0.00032398	0.000225632	0.000216918	0.000219984	
4000	0.0109844	0.00144952	1.34007	0.0140022	0.00298294	0.000232224	0.000231207	0.000230788	0.000230553	0.000251093	
4100	0.0132989	1.1256	0.0361772	0.0065567	0.00401743	0.0201756	1.804	0.0486993	0.006724	0.0162715	
4200	0.00118923	1.57485	1.05063	0.00136979	0.0016177	0.00201544	3.64665	0.00411904	0.0032216	0.00295143	
4300	0.124165	0.0300738	1.03955	0.00581228	0.00891543	0.00894338	0.0280418	0.126072	0.00883312	0.0105612	
4400	0.0020607	1.9305	0.697085	0.001882	0.01147	0.00286876	3.15943	0.00106452	0.00139974	0.0010557	
4500	0.0801323	1.80599	0.0145449	0.00476001	0.010361	0.136019	3.76018	0.0273433	0.00901415	0.0256749	
4600	0.739696	0.317001	1.11069	0.072886	0.0880327	0.112519	0.365061	0.73163	0.156308	0.111181	
4700	0.21712	0.0167638	0.00606187	0.00552864	0.00522084	0.00528776	0.00498296	0.00506963	0.00505304	0.00502796	
4800	0.0329736	0.00922257	1.44009	0.0402982	0.036536	0.0547911	0.00729273	0.055574	0.0207279	0.0187249	
4900	0.685723	1.58684	0.817972	0.0348245	0.0258859	0.0418494	3.15782	0.01048	0.0181232	0.0159643	
5000	0.0592001	1.70014	0.00268152	0.0162108	0.0132998	0.000847681	2.79275	0.000808005	0.000788234	0.00115891	
5100	0.0147022	0.00527105	1.11713	0.0133247	0.0105359	0.000293451	0.000285621	0.000281654	0.000282908	0.000282868	
5200	0.67007	1.40368	1.26971	0.0243377	0.0336192	0.00739492	2.46337	0.179444	0.0108446	0.00714578	
5300	0.202706	0.0195483	0.382777	0.0244876	0.0165272	0.0212849	0.0211914	0.0222337	0.0213397	0.020346	
5400	6.14668	0.367627	1.12738	0.0771162	0.0550894	0.0185053	0.582018	0.0866424	0.0133707	0.00850326	
5500	0.31059	0.457401	0.185429	0.0550431	0.0143722	0.00964798	0.756846	0.00196252	0.00318304	0.00932538	
5600	0.0642239	0.650701	1.388	0.00419766	0.00502072	0.0582012	1.06991	0.00444012	0.00731012	0.0162604	
5700	0.027823	1.15783	0.329764	0.0261019	0.0289682	0.0605848	1.71115	0.14949	0.022537	0.0138059	
5800	0.00571795	0.0201306	0.870211	0.00149541	0.00291212	0.00900357	0.0050281	0.00513544	0.00202879	0.00225116	
5900	0.0217795	1.64105	1.20288	0.0310277	0.00794877	0.00229887	2.48932	0.00230137	0.00688914	0.0142339	
6000	0.0234876	0.147355	0.00300191	0.021338	0.0583209	0.0431108	0.196292	0.00460074	0.0292221	0.0615579	
6100	0.014823	1.41353	2.01442	0.0091595	0.0178724	0.00237241	2.26172	0.00137512	0.00188973	0.00550856	
6200	1.12906	0.301894	1.93046	0.0142878	0.0671005	0.00204789	0.357874	0.00134914	0.00133573	0.00201739	

<b>6300</b>	0.00660773	0.0994308	2.06485	0.00334212	0.00279491	0.0105437	0.126723	0.105817	0.00620872	0.00508828	
<b>6400</b>	0.555251	0.0117088	0.706696	0.00932744	0.0326317	0.000462163	0.000383523	0.000395739	0.000386286	0.000385469	
<b>6500</b>	0.000456593	0.000436181	0.000436008	0.000436263	0.000428874	0.00039145	0.000384421	0.000400129	0.000390774	0.000393467	
<b>6600</b>	0.0597681	0.0857776	1.40951	0.00563521	0.00421559	0.00159561	0.0517753	0.00146572	0.00190779	0.00235862	
<b>6700</b>	0.0411906	0.233225	0.00328437	0.00426686	0.00209742	0.0321429	0.0721901	0.00112788	0.00113084	0.00180802	
<b>6800</b>	2.36472	0.795963	0.963602	0.0642216	0.0630397	0.0450357	1.23739	0.0446589	0.0458214	0.0526951	
<b>6900</b>	0.00711091	0.166438	0.0159943	0.00148343	0.00248858	0.00108521	0.00673689	0.0014411	0.00162083	0.00678505	
<b>7000</b>	0.103384	1.2129	0.0234658	0.00199304	0.00165075	0.00117108	1.94187	0.00107701	0.00118905	0.00180163	
<b>7100</b>	0.285261	0.125906	0.00758196	0.00728707	0.00561457	0.0182019	0.0278968	0.0103049	0.00851465	0.0065978	
<b>7200</b>	0.275757	0.0975986	1.45905	0.278461	0.234981	0.000402434	0.000396502	0.000394495	0.000404549	0.000399679	
<b>7300</b>	0.453957	1.84382	1.98528	0.0108327	0.00536326	0.0033936	3.30328	0.535242	0.00737321	0.00890416	
<b>7400</b>	1.39225	2.09767	1.30306	0.0209881	0.027482	0.0962339	3.37969	0.0392417	0.0263962	0.0399352	
<b>7500</b>	0.0708162	1.36877	1.49338	0.105969	0.150384	0.00710772	2.26053	0.36259	0.0114503	0.0222788	
<b>7600</b>	0.0178635	1.43346	1.07217	0.0189126	0.0413417	0.0175279	2.49551	0.00329989	0.0100019	0.0216302	
<b>7700</b>	0.00175509	0.00167035	0.627432	0.00943518	0.0262389	0.000536433	0.000445225	0.000457325	0.000443703	0.000448238	
<b>7800</b>	0.252246	2.48079	0.0457681	0.0240627	0.00522864	0.00178677	4.70631	0.00189172	0.00250086	0.00191946	
<b>7900</b>	0.170345	2.74485	0.0093865	0.124669	0.371372	0.291392	6.15675	0.0143701	0.212315	0.127566	
<b>8000</b>	6.54661	2.78996	0.437297	0.124627	0.0809223	0.119089	6.05196	0.206074	0.0750499	0.0727316	
<b>8100</b>	0.825271	2.66264	1.26768	0.0309797	0.0145063	0.282305	6.19428	0.0239538	0.0448127	0.0388336	
<b>8200</b>	0.0506183	2.69118	1.8829	0.00777675	0.0146939	0.103636	6.08582	0.067382	0.0121714	0.0136837	
<b>8300</b>	4.01792	0.300433	0.218731	0.119833	0.121828	0.00932234	0.456281	0.276661	0.0149725	0.0593687	