

RESULTS

F: Feasible Solution
N/A: No Solution Found

Test	Input sizes		Exact methods						Heuristics				
	n_packs	n_bins	CP 1		CP 2		MIP		f_min	f_max	f_avg	std_dev	t_avg(s)
			f	t(s)	f	t(s)	f	t(s)					
0007.txt	7	3	250	0.027932056	250	0.029741828	250	3.176666667	300	300	300	0	0.000029500
0010.txt	10	10	51	0.049313393	51	0.082288480	51	2.642000000	51	51	51	0	0.000037000
0011.txt	11	11	79	0.053943779	79	0.194204638	79	14.003000000	79	79	79	0	0.000035500
0012.txt	12	12	54	0.057868931	54	0.088900393	54	7.898000000	54	54	54	0	0.000040500
0013.txt	13	13	103	0.109191075	103	0.248680102	F	F	145	145	145	0	0.000039000
0014.txt	14	14	50	0.218952388	50	0.156991295	50	27.734666667	55	55	55	0	0.000051000
0015.txt	15	15	106	0.513134012	106	0.859766784	F	F	106	106	106	0	0.000057500
0016.txt	16	16	113	0.905138111	113	0.434518921	F	F	130	130	130	0	0.000049000
0017.txt	17	17	105	117.0229775	105	48.88790709	F	F	105	105	105	0	0.000052500
0018.txt	18	18	F	F	F	F	F	F	121	121	121	0	0.000059000
0019.txt	19	19	106	5.214479066	106	4.515408114	F	F	129	129	129	0	0.000058500
0020.txt	20	20	171	2.519827466	171	3.259184459	F	F	188	188	188	0	0.000053500
0021.txt	21	21	108	8.500796449	108	13.22533175	F	F	120	120	120	0	0.000060000
0022.txt	22	22	F	F	F	F	F	F	171	171	171	0	0.000060500
0023.txt	23	23	F	F	F	F	F	F	147	147	147	0	0.000075500
0024.txt	24	24	F	F	F	F	F	F	181	181	181	0	0.000084500
0025.txt	25	25	F	F	F	F	F	F	237	237	237	0	0.000071500
0026.txt	26	26	F	F	F	F	F	F	161	161	161	0	0.000070500
0027.txt	27	27	F	F	F	F	N/A	N/A	180	180	180	0	0.000069000
0028.txt	28	28	F	F	F	F	F	F	158	158	158	0	0.000079000
0029.txt	29	29	F	F	F	F	F	F	186	186	186	0	0.000077000
0030.txt	30	30	F	F	F	F	F	F	182	182	182	0	0.000080000
0031.txt	31	31	F	F	F	F	F	F	215	215	215	0	0.000090000
0032.txt	32	32	F	F	F	F	F	F	187	187	187	0	0.000096500
0033.txt	33	33	F	F	F	F	F	F	178	178	178	0	0.000101500
0034.txt	34	34	F	F	F	F	F	F	182	182	182	0	0.000091500
0035.txt	35	35	F	F	F	F	F	F	237	237	237	0	0.000098000
0036.txt	36	36	F	F	F	F	F	F	345	345	345	0	0.000098500
0037.txt	37	37	F	F	F	F	F	F	163	163	163	0	0.000095000
0038.txt	38	38	F	F	F	F	F	F	260	260	260	0	0.000102000
0039.txt	39	39	F	F	F	F	F	F	229	229	229	0	0.000116500
0040.txt	40	40	F	F	F	F	F	F	236	236	236	0	0.000121500
0041.txt	41	41	F	F	F	F	F	F	251	251	251	0	0.000117500
0042.txt	42	42	F	F	F	F	F	F	412	412	412	0	0.000109000
0043.txt	43	43	F	F	F	F	F	F	243	243	243	0	0.000109000
0044.txt	44	44	F	F	F	F	F	F	356	356	356	0	0.000149500
0045.txt	45	45	F	F	F	F	N/A	N/A	239	239	239	0	0.000117000
0046.txt	46	46	F	F	F	F	N/A	N/A	301	301	301	0	0.000118000
0047.txt	47	47	F	F	F	F	F	F	284	284	284	0	0.000160000
0048.txt	48	48	F	F	F	F	N/A	N/A	287	287	287	0	0.000124500
0049.txt	49	49	F	F	F	F	N/A	N/A	275	275	275	0	0.000134500
0050.txt	50	50	F	F	F	F	N/A	N/A	314	314	314	0	0.000125000
0051.txt	51	51	F	F	F	F	N/A	N/A	291	291	291	0	0.000162000
0052.txt	52	52	F	F	F	F	N/A	N/A	358	358	358	0	0.000135500
0053.txt	53	53	F	F	F	F	N/A	N/A	404	404	404	0	0.000130500
0054.txt	54	54	F	F	F	F	N/A	N/A	278	278	278	0	0.000134000
0090.txt	90	90	F	F	F	F	N/A	N/A	591	591	591	0	0.000233000
0120.txt	120	120	F	F	F	F	N/A	N/A	701	701	701	0	0.000335500
0150.txt	150	150	F	F	F	F	N/A	N/A	770	770	770	0	0.000483500
0180.txt	180	180	F	F	F	F	N/A	N/A	965	965	965	0	0.000588500
0210.txt	210	210	F	F	F	F	N/A	N/A	1098	1098	1098	0	0.000721500
0240.txt	240	240	F	F	F	F	N/A	N/A	1161	1161	1161	0	0.000794500
0270.txt	270	270	N/A	N/A	N/A	N/A	N/A	N/A	1243	1243	1243	0	0.001095500
0300.txt	300	300	N/A	N/A	N/A	N/A	N/A	N/A	1817	1817	1817	0	0.001208500
0330.txt	330	330	N/A	N/A	N/A	N/A	N/A	N/A	1942	1942	1942	0	0.001404500
0350.txt	360	360	N/A	N/A	N/A	N/A	N/A	N/A	2052	2052	2052	0	0.001529000
0550.txt	550	550	N/A	N/A	N/A	N/A	N/A	N/A	2841	2841	2841	0	0.003081500
0600.txt	600	600	N/A	N/A	N/A	N/A	N/A	N/A	3633	3633	3633	0	0.004040500
0650.txt	650	650	N/A	N/A	N/A	N/A	N/A	N/A	3775	3775	3775	0	0.004719500
0700.txt	700	700	N/A	N/A	N/A	N/A	N/A	N/A	3835	3835	3835	0	0.005014500
0750.txt	750	750	N/A	N/A	N/A	N/A	N/A	N/A	4017	4017	4017	0	0.005300000
0800.txt	800	800	N/A	N/A	N/A	N/A	N/A	N/A	4489	4489	4489	0	0.006496500

Test	Input sizes		Exact methods						Heuristics				
			CP 1		CP 2		MIP						
	n_packs	n_bins	f	t(s)	f	t(s)	f	t(s)	f_min	f_max	f_avg	std_dev	t_avg(s)
0850.txt	850	850	N/A	N/A	N/A	N/A	N/A	N/A	4503	4503	4503	0	0.007256500
0900.txt	900	900	N/A	N/A	N/A	N/A	N/A	N/A	4625	4625	4625	0	0.007605000
0950.txt	950	950	N/A	N/A	N/A	N/A	N/A	N/A	5308	5308	5308	0	0.008947000
10000.txt	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	53952	53952	53952	0	0.774925500
1000.txt	1000	1000	N/A	N/A	N/A	N/A	N/A	N/A	5579	5579	5579	0	0.010288000
2000.txt	2000	2000	N/A	N/A	N/A	N/A	N/A	N/A	11217	11217	11217	0	0.032937001
3000.txt	3000	3000	N/A	N/A	N/A	N/A	N/A	N/A	16019	16019	16019	0	0.057311000
4000.txt	4000	4000	N/A	N/A	N/A	N/A	N/A	N/A	21701	21701	21701	0	0.101622500
5000.txt	5000	5000	N/A	N/A	N/A	N/A	N/A	N/A	27568	27568	27568	0	0.127237998
6000.txt	6000	6000	N/A	N/A	N/A	N/A	N/A	N/A	32746	32746	32746	0	0.178141996
7000.txt	7000	7000	N/A	N/A	N/A	N/A	N/A	N/A	38368	38368	38368	0	0.224725999
8000.txt	8000	8000	N/A	N/A	N/A	N/A	N/A	N/A	43364	43364	43364	0	0.288765997
9000.txt	9000	9000	N/A	N/A	N/A	N/A	N/A	N/A	49632	49632	49632	0	0.362545997