Local Search Assignment Report

ID: 1805012

Benchmark	Known Best Solution		Scheme-1 Largest Degree + Kempe + Pairswap			
	Time Slots	Penalty	Time Slots	Penalty		
				After Largest Degree	After Kempe	After Pairswap
CARF92	32	3.74	34	11.2811	4.4712	4.3371
CARS91	35	4.42	36	13.7219	5.7531	5.60085
KFU93	20	12.96	21	53.9635	13.7074	13.5233
TRE92	23	7.75	22	16.4924	9.99473	9.95988
YOR83	21	34.84	24	63.2487	32.814	31.7173

Benchmark	Known Best Solution		Scheme-2 Saturation Degree + Kempe + Pairswap			
	Time Slots	Penalty	Time Slots	Penalty		
				After Saturation Degree	After Kempe	After Pairswap
CARF92	32	3.74	32	10.53	4.95239	4.88615
CARS91	35	4.42	36	13.0005	5.88219	5.68687
KFU93	20	12.96	22	53.1877	12.9845	12.0204
TRE92	23	7.75	21	17.2976	10.7494	10.5954
YOR83	21	34.84	23	59.4176	35.5175	34.2009

Benchmark	Known Best Solution		Scheme-3 Largest Enrollment + Kempe + Pairswap			
	Time Slots	Penalty	Time Slots	Penalty		
				After Largest Enrollment	After Kempe	After Pairswap
CARF92	32	3.74	47	7.82621	2.68864	2.55595
CARS91	35	4.42	48	9.09299	3.82754	3.67151
KFU93	20	12.96	25	31.968	10.2978	9.94055
TRE92	23	7.75	28	12.6937	6.59881	6.49152
YOR83	21	34.84	28	51.8874	26.1126	25.6854

Benchmark	Known Best Solution		Scheme-4 Random + Kempe + Pairswap			
	Time Slots	Penalty	Time Slots	Penalty		
				After Random Ordering	After Kempe	After Pairswap
CARF92	32	3.74	47	7.82621	2.75905	2.59498
CARS91	35	4.42	48	9.09299	3.94322	3.78536
KFU93	20	12.96	25	31.968	9.91026	8.93831

TRE92	23	7.75	28	12.6937	6.81935	6.63228
YOR83	21	34.84	27	51.8874	26.915	26.7067

Benchmark	Known Best Solution		Scheme-5 (Linear Penalty) Degree Saturation + Kempe + Pairswap			
	Time Slots	Penalty	Time Slots	Penalty		
				After Degree Saturation	After Kempe	After Pairswap
CARF92	32	3.74	32	6.6021	3.26326	3.15989
CARS91	35	4.42	36	8.25535	3.79948	3.71582
KFU93	20	12.96	22	33.3146	8.82969	8.3137
TRE92	23	7.75	21	10.9074	7.19211	7.14672
YOR83	21	34.84	23	38.0043	23.4368	23.4113