Problem		Constructive Algorithm			Local Search			GRASP		Known best	CDASD	Average		Construction-only Accuracy			
Input Filename		ΙΕΙ	randomised	simple_greedy	semi-greedy	Iterations	Best Value	Iterations	Best Value	Constructive Algorithm		GRASP Accuracy	accuracy with local search	improvement with GRASP iterations	random	greedy	semi- greedy
						163	11358		11420	randomised	12078	94.55%	94.04%	0.55%			
set1/g1.rud	800	19176	11025	11297	11106	74	11394	50	11463	simple_greedy	12078	94.91%	94.34%	0.61%	91.28%	93.53%	91.95%
						124	11375			semi-greedy	12078	94.90%	94.18%	0.76%			
00t1/g2 rud	000	10170	44000	11000	44440	162	11367	50		randomised	12084	94.84%	94.07%	0.83%	04 400	00.00%	04 04%
set1/g2.rud	800	19176	11009	11236	11113	74	11405	50		simple_greedy	12084	94.95% 94.83%	94.38%	0.60% 0.79%	91.10%	92.98%	91.96%
						118 160	11369 11353			semi-greedy randomised	12084 12077	94.83%	94.08%	0.79%			
set1/g3.rud	800	19176	11035	11276	11107	69	11395	50		simple_greedy	12077	95.01%	94.35%	0.69%	91.37%	93.37%	91.97%
						123	11374			semi-greedy	12077	94.92%	94.18%	0.78%			
						171	11383			randomised							
set1/g4.rud	800	19176	11037	11272	11132	74	11405	50	11472	simple_greedy							
						125	11391		11522	semi-greedy							
						165	11355			randomised							
set1/g5.rud	800	19176	11007	11285	11088	72	11414	50		simple_greedy							
						124	11382			semi-greedy							
set1/g6.rud	800	19176	1532	1738	1577	175 84	1906 1936	50		randomised							
set i/go.ruu	000	19176	1552	1730	1577	149	1936	50		simple_greedy semi-greedy							
						173	1743			randomised							
set1/g7.rud	800	19176	1376	1573	1415	94	1743	50		simple_greedy							
55t./g uu				.0.0		145	1740			semi-greedy							
						180	1756			randomised							
set1/g8.rud	800	19176	1379	1580	1456	84	1771	50		simple_greedy							
-						146	1751			semi-greedy							
						169	1780			randomised							
set1/g9.rud	800	19176	1420	1634	1497	88	1823	50		simple_greedy							
						154	1799			semi-greedy							
						176	1739			randomised							
set1/g10.rud	800	19176	1353	1630	1425	86	1765	50		simple_greedy							
						145	1738			semi-greedy		70.000	70.000				
cot1/a11 rud	800	1600	409	464	423	16	441 484	50		randomised	627 627	73.68% 80.06%	70.33%	4.76%	65.23%	74.00%	67.46%
set1/g11.rud	800	1000	409	404	423	13	455	50		simple_greedy semi-greedy	627	78.79%	72.57%	8.57%	03.23%	14.00%	01.40%
						16	428			randomised	621	73.11%	68.92%	6.07%			
set1/g12.rud	800	1600	397	448	413	5	473	50		simple_greedy	621	79.23%	76.17%	4.02%	63.93%	72.14%	66.51%
301.1912.101						14	439			semi-greedy	621	76.65%	70.69%	8.43%			
						19	456			randomised	645	73.80%	70.70%	4.39%			
set1/g13.rud	800	1600	418	474	428	6	498	50	518	simple_greedy	645	80.31%	77.21%	4.02%	64.81%	73.49%	66.36%
						15	467		508	semi-greedy	645	78.76%	72.40%	8.78%			
set1/g14.rud						49	2936		2957	randomised	3187	92.78%	92.12%	0.72%			
	800	4694	2865	2943	2933	21	2971	50	2992	simple_greedy	3187	93.88%	93.22%	0.71%	89.90%	92.34%	92.03%
						25	2965			semi-greedy	3187	93.63%	93.03%	0.64%			
set1/g15.rud	800	4661	2845	2915	2913	50	2919	50		randomised	3169	92.84%	92.11%	0.79%	89.78%	91.98%	91.92%
						21	2947			simple_greedy	3169	93.47%	92.99%	0.51%			
						25 49	2946 2922			semi-greedy randomised	3169 3172	93.69% 93.19%	92.96% 92.12%	0.78% 1.16%			
set1/g16.rud	800	4672	2854	2940	2917	23	2954	50		simple_greedy	3172	93.95%	93.13%	0.88%	89.97%	92.69%	91.96%
g						26	2949			semi-greedy	3172	93.85%	92.97%	0.95%			
						51	2919			randomised							
set1/g17.rud	800	4667	2854	2932	2907	23	2949	50	2963	simple_greedy							
						26	2949		2971	semi-greedy							
						78	831		866	randomised							
set1/g18.rud	800	4694	694	839	721	31	881	50		simple_greedy							
						65	845			semi-greedy							
aat1/=40	000	4004	044	705	040	77	746	50		randomised							
set1/g19.rud	800	4661	611	795	642	32	799 757	50		simple_greedy							
						70 73	757 770			semi-greedy randomised							
set1/g20.rud	800	4672	652	785	673	32	830	50		randomised simple_greedy							
g=0.100		.512		. 55	3.3	65	787			simple_greedy semi-greedy							
						82	771			randomised							
set1/g21.rud	800	4667	634	755	669	34	820	50		simple_greedy							
						69	782			semi-greedy							
set1/g22.rud						260	12805			randomised	14123	91.20%	90.67%	0.59%			
	2000	19990	12365	12775	12620	98	12958	50		simple_greedy	14123	92.36%	91.75%	0.66%	87.55%	90.46%	89.36%
						169	12882			semi-greedy	14123	92.13%	91.21%	1.00%			
set1/g23.rud 2	0000	4000-	40050	10=01	10001	257	12822	F 0		randomised	14129	91.56%	90.75%	0.89%	07 400	00 100	00 400
	2000	19990	12352	12784	12631	94	12955	50		simple_greedy	14129	92.31%	91.69%	0.68%	87.42%	90.48%	89.40%
						174 256	12881			semi-greedy randomised	14129 14131	91.90% 91.47%	91.17% 90.71%	0.80% 0.83%			
set1/g24.rud	2000	19990	12354	12819	12642	97	12818 12952	50		simple_greedy	14131	91.47% 92.12%	90.71%	0.83%	87.42%	90.72%	89.46%
J au	_555	.5550	.2004	.2010	012	173	12897			simple_greedy semi-greedy	14131	91.93%	91.27%	0.73%			
set1/g25.rud		19990	12368	12807	12629	254	12820	50		randomised			120	21.0%			
	2000					93	12950			simple_greedy							
						175	12885		12991	semi-greedy							
						255	12811		12930	randomised							
set1/g26.rud	2000	19990	12347	12790	12609	97	12945	50		simple_greedy							
						175	12883			semi-greedy							
					ā	270	2811			randomised							
set1/g27.rud	2000	19990	2302	2594	2405	126	2907	50		simple_greedy							
						236	2834			semi-greedy							
sot1/a20	2000	10000	2200	2672	2204	276	2784	50		randomised							
set1/g28.rud	2000	19990	2298	2673	2394	127	2871	50		simple_greedy							
						231	2801		2893	semi-greedy			I		l		

Problem		Constructive Algorithm		Local Search		GRASP		Known best CDAOD		Average	Relative	Construction-only Accuracy					
Input Filename	V	ΙΕΙ	randomised	simple_greedy	semi-greedy	Iterations	Best Value	Iterations	Best Value	Constructive Algorithm	solution or upper bound	GRASP Accuracy	accuracy with local search	improvement with GRASP iterations	random	greedy	semi- greedy
set1/g29.rud	2000	19990	2352	2769	2499	270 134	2868 2963	50	3032	randomised simple_greedy							
						236 265	2898 2864			semi-greedy randomised							
<u> </u>	2000	19990	2384	2785	2489	125 234	2967 2888	50		simple_greedy semi-greedy							
						274	2777		2889	randomised							
set1/g31.rud	2000	19990	2280	2606	2384	133 230	2885 2818	50		simple_greedy semi-greedy							
					1058	41	1099		1152	randomised	1560	73.85%	70.45%	4.82%			
set1/g32.rud	2000	4000	1021	1192		13 33	1209 1120	50		simple_greedy semi-greedy	1560 1560	79.62% 77.95%	77.50% 71.79%	2.73% 8.57%	65.45%	76.41%	67.82%
14/ 00 1	0000	4000	977	1152	1021	43	1068	50		randomised	1537	71.70%	69.49%	3.18%	/ 2 F79/	74.05%	// 429/
set1/g33.rud	2000	4000				12 36	1196 1092			simple_greedy semi-greedy	1537 1537	79.77% 77.55%	77.81% 71.05%	2.51% 9.16%	63.57%	74.95%	66.43%
20t1/g24 gud	2000	4000	07.	4440	4000	45	1066	50		randomised	1541	71.77%	69.18% 77.48%	3.75%	63.21%	74.50%	66.97%
set1/g34.rud	2000	4000	974	1148	1032	12 36	1194 1083	50		simple_greedy semi-greedy	1541 1541	79.04% 79.56%	70.28%	2.01%	03.21%	14.50%	00.91%
set1/g35.rud	2000	1.1==0		7377		126	7358 7446	50		randomised	8000	92.40%	91.98% 93.08%	0.46% 0.43%	89.81%	92.21%	91.94%
Sett/g55.rud	2000	11778	7185	1311	7355	53 64	7446	50		simple_greedy semi-greedy	8000 8000	93.48% 93.39%	93.08%	0.43%	09.01%	72.21%	71.74%
set1/g36.rud	2000	11766	7166	7359	7255	124 54	7354 7438	50		randomised	7996	92.55%	91.97% 93.02%	0.63% 0.51%	89 62%	92 03%	91.98%
Set 1/g30.ruu	2000	11766	7166	7339	7355	62	7436			simple_greedy semi-greedy	7996 7996	93.50% 93.62%	92.91%	0.31%		92.03%	71.70%
sot1/g27 rud	2000	11785 11779	7100	7378 7375	7365	127	7364 7447	50		randomised	8009 8009	93.42%	91.95% 92.98%	0.61%	89.77%	92.12%	91.96%
set1/g37.rud 200	2000		7190			53 63	7447			simple_greedy semi-greedy	8009		92.98%	0.47% 0.52%		, _ , 12/0	71.70%
cot1/g39 rud	2000		7181			129 53	7355 7445	1		randomised							
set1/g38.rud 20	2000		7101			66	7445			simple_greedy semi-greedy							
set1/g39.rud	2000	11778	1677	2095	1745	196	2014	50		randomised							
Sett/g59.ruu	2000	11776			1745	75 177	2131 2029			simple_greedy semi-greedy							
set1/g40.rud 20	2000	11766	1640	1978	1714	201	1979	50		randomised							
	2000	11700	1040	1970	1714	76 174	2118 2005	50		simple_greedy semi-greedy							
set1/g41.rud	2000	11785	1661	1996	1731	192 74	1994 2119	50		randomised							
3e(1/g41.1uu	2000	11703	1001	1990	1731	169	2020	30		simple_greedy semi-greedy							
set1/g42.rud	2000	11779	1730	2120	1799	195 77	2075 2199	50		randomised							
Sett/g42.ruu	2000	11779	1730	2120	1799	174	2093	50		simple_greedy semi-greedy							
set1/g43.rud	1000	9990	6179	6422	6316	128 50	6396 6459	50		randomised	7027 7027	92.16% 92.61%	91.02% 91.92%	1.25% 0.76%	87.93%	91.39%	89.88%
3e(1/g43.1uu	1000	3330	0179	0422	0310	82	6435	30		simple_greedy semi-greedy	7027	92.61%	91.92%	0.78%	01.75%	71.57%	07.00%
set1/g44.rud	1000	9990	6174	6373 6416	6319	123 50	6390 6461			randomised simple_greedy	7022 7022	91.85% 92.99%	91.00% 92.01%	0.94% 1.07%	87.92%	90.76%	89.99%
30t1/g+4.1dd	1000					80	6433			semi-greedy	7022	92.64%	91.61% 1.12%	J/2/0	7U.10%	57.770	
set1/g45.rud	1000		6162			123 50	6395 6463			randomised simple_greedy	7020 7020		91.10% 92.07%	1.09%		91.40%	89.91%
00(1/9 10:100	1000	0000	0102	0110	0012	81	6437			semi-greedy	7020	92.56%	91.70%	0.95%	0111010	721100	0717210
set1/g46.rud	1000	9990	6170	6392	6336	128 48	6399 6462	50		randomised simple_greedy							
00(1/9 10.144	1000					77	6437			semi-greedy							
set1/g47.rud	1000	9990	6184	6395	6336	123 50	6397 6465	50		randomised simple_greedy							
						79	6437			semi-greedy							
set1/g48.rud	3000	6000	4913	6000	6000	74	5084 5993	-		randomised simple_greedy	6000 6000	86.30% 100.00%	84.73% 99.88%	1.85% 0.12%	81.88%	100.00%	100.00%
3						1	5984		6000	semi-greedy	6000	100.00%	99.73%	0.27%			
set1/g49.rud	3000	6000	4891	6000	6000	75 1	5068 5994	-		randomised simple_greedy	6000 6000	85.43% 100.00%	84.47% 99.90%	1.14% 0.10%	81.52%	100.00%	100.00%
						1	5988		6000	semi-greedy	6000	100.00%	99.80%	0.20%			
set1/g50.rud	3000	6000	4918	5874	5843	76 1	5080 5871	50		randomised simple_greedy	5988 5988	86.54% 98.16%	84.84% 98.05%	2.01% 0.12%	82.13% 98	98.10%	97.58%
						2	5846		5876	semi-greedy	5988	98.13%	97.63%	0.51%			
set1/g51.rud	1000	5909	3588	3709	3685	62 28	3688 3729	50		randomised simple_greedy							
J .						33	3726		3756	semi-greedy							
set1/g52.rud	1000	5916	3610	3711	3691	63 27	3693 3735	50		randomised simple_greedy							
						32	3731		3757	semi-greedy							
set1/g53.rud	1000	5914	3599	3704	3694	63 27	3689 3732	50		randomised simple_greedy							
						32	3724		3755	semi-greedy							
set1/g54.rud	1000	5916	3608	3683	3688	60 27	3692 3731	50		randomised simple_greedy							
						32				semi-greedy							