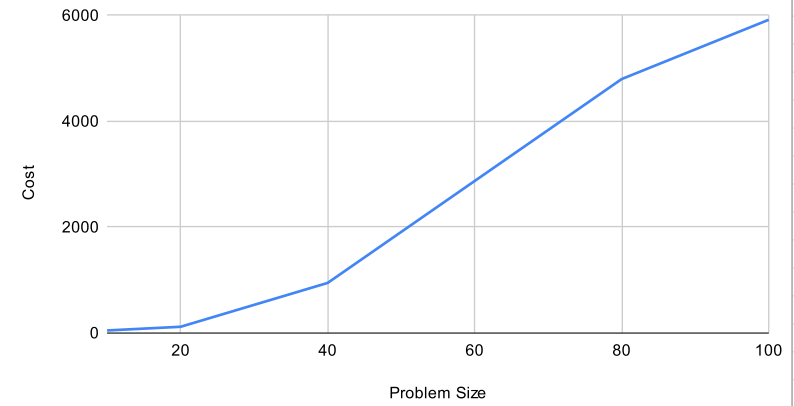


GREEDY

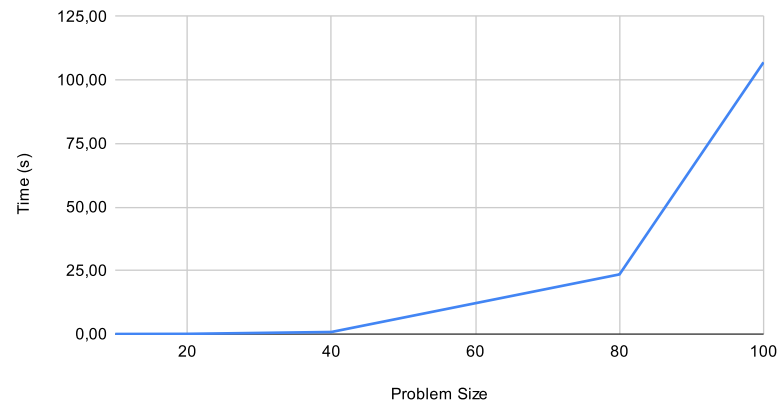
PROBLEM_SIZE

10	0,01
20	0,07
40	0,80
80	23,47
100	106,96
200	

Cost evolution according to problem size

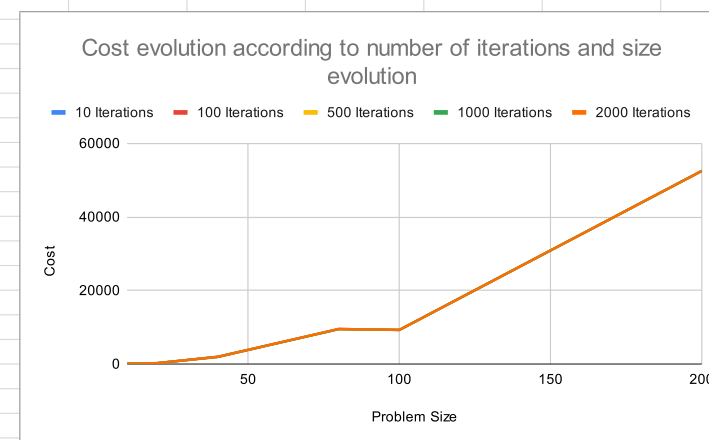
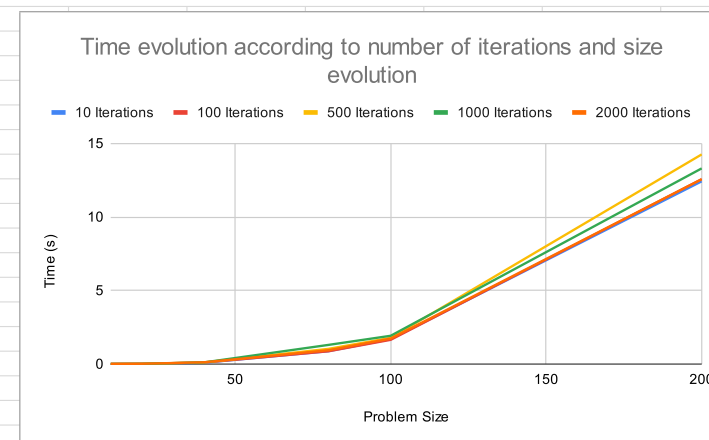


Time evolution according to problem size



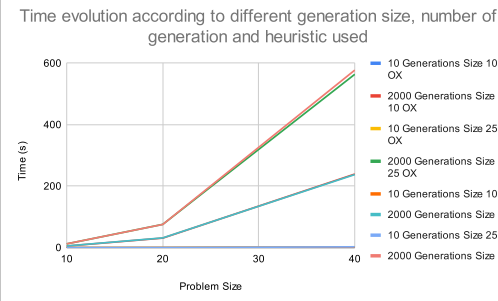
PROBLEM_SIZE

10	48,18
20	117,88
40	946,27
80	4798,28
100	5918,08

[illegible]

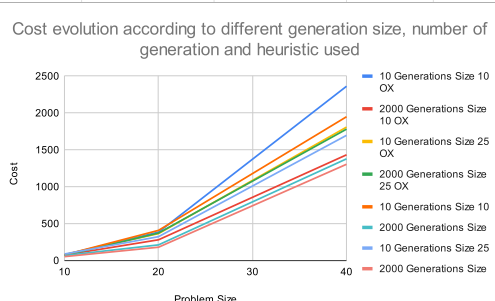
GENETIC OX						GENETIC PMX							
GENERATION_SIZE	10						GENERATION_SIZE	10					
	GENERATIONS	10	100	500	1000	2000		GENERATIONS	10	100	500	1000	2000
PROBLEM_SIZE							PROBLEM_SIZE						
	10	0,0621	0,299	1,37	2,622	5,237		10	0,066	0,306	1,373	2,663	5,573
	20	0,199	1,644	7,875	15,95	31,139		20	0,205	1,691	7,665	15,552	31,741
	40	1,213	10,817	56,729	114,69	239,42		40	1,153	10,952	57,677	119,69	237,83
GENETIC OX						GENETIC PMX							
GENERATION_SIZE	25						GENERATION_SIZE	25					
	GENERATIONS	10	100	500	1000	2000		GENERATIONS	10	100	500	1000	2000
PROBLEM_SIZE							PROBLEM_SIZE						
	10	0,11	0,639	3,141	7,246	12,413		10	0,101	0,66	3,067	7,097	12,485
	20	0,418	3,751	18,911	37,504	75,763		20	0,421	3,829	18,043	37,415	75,567
	40	2,696	25,544	137,68	282,365	564,054		40	2,672	26,066	137,441	286,07	577,65
GENETIC OX						GENETIC PMX							
GENERATION_SIZE	10						GENERATION_SIZE	10					
	GENERATIONS	10	100	500	1000	2000		GENERATIONS	10	100	500	1000	2000
PROBLEM_SIZE							PROBLEM_SIZE						
	10	77,1	59,58	64,73	98,04	74,55		10	77,29	68,23	65,75	65,98	68,52
	20	385,59	368,72	304,7	332,24	281,55		20	409,3	312,72	218,98	231,95	212,46
	40	2362,77	1627,07	1852,5	2110,65	1433,5		40	1949,65	1528,18	1105,21	1303,7	1379,13
GENETIC OX						GENETIC PMX							
GENERATION_SIZE	25						GENERATION_SIZE	25					
	GENERATIONS	10	100	500	1000	2000		GENERATIONS	10	100	500	1000	2000
PROBLEM_SIZE							PROBLEM_SIZE						
	10	80	62,983	62,52	55,42	71,03		10	88,88	94,84	72,8	63,44	53,39
	20	365,23	338,33	319,1	340,546	372,73		20	323,72	172,34	225,98	311,88	181
	40	1809,13	1941,33	2016,4	1630,19	1781,68		40	1697,57	1160,51	1148,02	895,55	1305,37

Time evolution according to different generation size, number of generation and heuristic used



Problem Size	10 Generations Size 10 OX	2000 Generations Size 10 OX	10 Generations Size 25 OX	2000 Generations Size 25 OX	10 Generations Size 10 PMX	2000 Generations Size 10 PMX	10 Generations Size 25 PMX	2000 Generations Size 25 PMX
10	0.0621	0.0621	0.0621	0.0621	0.066	0.066	0.066	0.066
20	0.199	0.199	0.199	0.199	0.205	0.205	0.205	0.205
30	1.213	1.213	1.213	1.213	1.153	1.153	1.153	1.153
40	10.817	10.817	10.817	10.817	10.952	10.952	10.952	10.952

Cost evolution according to different generation size, number of generation and heuristic used



Problem Size	10 Generations Size 10 OX	2000 Generations Size 10 OX	10 Generations Size 25 OX	2000 Generations Size 25 OX	10 Generations Size 10 PMX	2000 Generations Size 10 PMX	10 Generations Size 25 PMX	2000 Generations Size 25 PMX
10	0.0621	0.0621	0.0621	0.0621	0.066	0.066	0.066	0.066
20	0.199	0.199	0.199	0.199	0.205	0.205	0.205	0.205
30	1.213	1.213	1.213	1.213	1.153	1.153	1.153	1.153
40	10.817	10.817	10.817	10.817	10.952	10.952	10.952	10.952

SIMULATED_ANNEALING										SIMULATED_ANNEALING										SIMULATED_ANNEALING									
INITIAL_TEMP=100 COOLING = 0.01										INITIAL_TEMP=100 COOLING = 0.1										INITIAL_TEMP=100 COOLING = 1									
PROBLEM_SIZE										PROBLEM_SIZE										PROBLEM_SIZE									
ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000						
10	0.00123 s / 68.928 custo	0.01166 s / 56.616 custo	0.05510 s / 48.889 custo	0.10705 s / 49.687 custo	0.21602 s / 65.291 custo	10	0.00136 s / 64.564 custo	0.01247 s / 61.526 custo	0.05694 s / 48.420 custo	0.11035 s / 66.520 custo	0.21748 s / 55.066 custo	10	0.00153 s / 104.999 custo	0.01574 s / 72.199 custo	0.07811 s / 95.159 custo	0.15674 s / 75.114 custo	0.31325 s / 68.383 custo	10	0.00153 s / 104.999 custo	0.01574 s / 72.199 custo	0.07811 s / 95.159 custo	0.15674 s / 75.114 custo	0.31325 s / 68.383 custo						
20	0.00699 s / 315.124 custo	0.00785 s / 140.097 custo	0.30201 s / 140.097 custo	0.59354 s / 140.965 custo	1.17454 s / 156.175 custo	20	0.00671 s / 417.429 custo	0.06526 s / 160.704 custo	0.31423 s / 206.993 custo	0.60111 s / 137.341 custo	1.20559 s / 130.39 custo	20	0.00697 s / 1346.307 custo	0.08154 s / 299.115 custo	0.44835 s / 276.139 custo	0.83426 s / 288.452 custo	1.6673 s / 280.688 custo	20	0.00697 s / 1346.307 custo	0.08154 s / 299.115 custo	0.44835 s / 276.139 custo	0.83426 s / 288.452 custo	1.6673 s / 280.688 custo						
40	0.04931 s / 1403.978 custo	0.47466 s / 667.835 custo	2.22166 s / 457.471 custo	4.33294 s / 401.523 custo	8.3363 s / 443.939 custo	40	0.05559 s / 1427.521 custo	0.47848 s / 581.454 custo	2.24329 s / 442.899 custo	4.35112 s / 429.791 custo	8.56453 s / 340.893 custo	40	0.05957 s / 1346.307 custo	0.07958 s / 1077.499 custo	0.30397 s / 1135.793 custo	0.77817 s / 867.498 custo	15.4359 s / 907.498 custo	40	0.05957 s / 1346.307 custo	0.07958 s / 1077.499 custo	0.30397 s / 1135.793 custo	0.77817 s / 867.498 custo	15.4359 s / 907.498 custo						
80	0.38915 s / 6931.775 custo	3.70787 s / 4734.096 custo	16.0288 s / 4188.436 custo	31.38954 s / 3321.441 custo	62.06127 s / 3513.998 custo	80	0.35215 s / 6947.327 custo	3.57603 s / 4665.967 custo	16.61484 s / 2192.712 custo	32.00149 s / 2705.408 custo	62.77267 s / 2576.218 custo	80	0.39668 s / 6167.889 custo	3.86584 s / 5555.905 custo	19.2038 s / 2767.578 custo	39.00477 s / 4150.144 custo	77.53326 s / 3325.121 custo	80	0.39668 s / 6167.889 custo	3.86584 s / 5555.905 custo	19.2038 s / 2767.578 custo	39.00477 s / 4150.144 custo	77.53326 s / 3325.121 custo						
100	0.7109 s / 11491.744 custo	3.70787 s / 5660.652 custo	31.4073 s / 5615.029 custo	31.4073 s / 5615.029 custo		100	0.78106 s / 11413.695 custo	3.76763 s / 7383.513 custo	32.63357 s / 3486.142 custo			100	0.86368 s / 10967.162 custo	6.10525 s / 7417.706 custo	40.10981 s / 10967.162 custo	289.49394 s / 34131.525 custo		100	0.86368 s / 10967.162 custo	6.10525 s / 7417.706 custo	40.10981 s / 10967.162 custo	289.49394 s / 34131.525 custo							
200	4.40896 s / 61748.733 custo	58.00031 s / 39418.698 custo	254.3309 s / 33473.698 custo			200	5.41346 s / 54186.488 custo	58.25669 s / 39873.881 custo	257.73723 s / 38322.129 custo			200	6.11794 s / 53554.871 custo	61.58554 s / 41506.555 custo				200	6.11794 s / 53554.871 custo	61.58554 s / 41506.555 custo									
SIMULATED_ANNEALING										SIMULATED_ANNEALING										SIMULATED_ANNEALING									
INITIAL_TEMP = 10 COOLING = 0.01										INITIAL_TEMP = 10 COOLING = 0.1										INITIAL_TEMP = 10 COOLING = 1									
PROBLEM_SIZE										PROBLEM_SIZE										PROBLEM_SIZE									
ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000						
10	0.00129 s / 54.710 custo	0.01235 s / 65.064 custo	0.05568 s / 64.519 custo	0.10706 s / 51.425 custo	0.21374 s / 63.611 custo	10	0.00129 s / 77.252 custo	0.01252 s / 63.153 custo	0.05843 s / 67.473 custo	0.10980 s / 58.582 custo	0.21715 s / 50.370	10	0.00144 s / 69.492 custo	0.01431 s / 89.935 custo	0.07028 s / 75.598 custo	0.13950 s / 64.687 custo	0.26277 s / 65.343 custo	10	0.00144 s / 69.492 custo	0.01431 s / 89.935 custo	0.07028 s / 75.598 custo	0.13950 s / 64.687 custo	0.26277 s / 65.343 custo						
20	0.00676 s / 284.815 custo	0.06883 s / 111.397 custo	0.30223 s / 126.525 custo	0.59529 s / 147.161 custo	1.17524 s / 116.201 custo	20	0.007 s / 331.624 custo	0.06333 s / 148.352 custo	0.30538 s / 139.271 custo	0.60322 s / 131.098 custo	1.18024 s / 127.096 custo	20	0.00787 s / 174.733 custo	0.07272 s / 165.774 custo	0.35188 s / 183.887 custo	0.70485 s / 167.393 custo	1.43029 s / 183.894 custo	20	0.00787 s / 174.733 custo	0.07272 s / 165.774 custo	0.35188 s / 183.887 custo	0.70485 s / 167.393 custo	1.43029 s / 183.894 custo						
40	0.04012 s / 1481.254 custo	0.47426 s / 707.571 custo	2.19516 s / 526.682 custo	4.30512 s / 483.031 custo	8.3363 s / 443.939 custo	40	0.04087 s / 1478.319 custo	0.50434 s / 557.948 custo	2.20851 s / 338.307 custo	4.33211 s / 415.904 custo	8.60754 s / 305.175 custo	40	0.04995 s / 1473.204 custo	0.50502 s / 450.922 custo	2.44321 s / 457.429 custo	4.85577 s / 354.971 custo	9.8259 s / 425.894 custo	40	0.04995 s / 1473.204 custo	0.50502 s / 450.922 custo	2.44321 s / 457.429 custo	4.85577 s / 354.971 custo	9.8259 s / 425.894 custo						
80	0.35364 s / 7197.82 custo	3.51938 s / 4746.91 custo	16.17462 s / 3316.018 custo	31.33748 s / 3375.281 custo	62.56181 s / 3596.623 custo	80	0.41261 s / 6942.559 custo	3.55455 s / 4082.326 custo	17.02297 s / 2486.978 custo	32.14112 s / 3095.117 custo	63.99567 s / 2283.708 custo	80	0.38155 s / 7192.821 custo	3.77653 s / 4106.248 custo	17.84573 s / 2007.995 custo	34.79465 s / 1676.913 custo	71.03144 s / 1277.475 custo	80	0.38155 s / 7192.821 custo	3.77653 s / 4106.248 custo	17.84573 s / 2007.995 custo	34.79465 s / 1676.913 custo	71.03144 s / 1277.475 custo						
100	0.86779 s / 10642.728 custo	7.1317 s / 6946.029 custo	31.37038 s / 5743.731 custo			100	0.77094 s / 10723.245 custo	6.9537 s / 6250.317 custo	32.12522 s / 4248.974 custo			100	0.74071 s / 12125.838 custo	7.04957 s / 5272.813 custo	33.56027 s / 2911.481 custo	275.97372 s / 22273.244 custo		100	0.74071 s / 12125.838 custo	7.04957 s / 5272.813 custo	33.56027 s / 2911.481 custo	275.97372 s / 22273.244 custo							
200	5.95951 s / 54099.781 custo	57.32744 s / 39713.932 custo	249.82333 s / 37740.26 custo			200	6.96731 s / 53307.729 custo	56.54472 s / 38932.488 custo	258.89211 s / 29874.154 custo			200	5.18795 s / 55242.155 custo	57.30771 s / 39983.818 custo				200	5.18795 s / 55242.155 custo	57.30771 s / 39983.818 custo									
SIMULATED_ANNEALING										SIMULATED_ANNEALING										SIMULATED_ANNEALING									
INITIAL_TEMP = 50 COOLING = 0.01										INITIAL_TEMP = 50 COOLING = 0.1										INITIAL_TEMP = 50 COOLING = 1									
PROBLEM_SIZE										PROBLEM_SIZE										PROBLEM_SIZE									
ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000						
10	0.00140 s / 79.731 custo	0.01178 s / 69.570 custo	0.05538 s / 66.142 custo	0.10779 s / 68.018 custo	0.21299 s / 71.951 custo	10	0.00134 s / 68.700 custo	0.01185 s / 73.649 custo	0.05599 s / 71.784 custo	0.10934 s / 56.427 custo	0.21727 s / 61.483 custo	10	0.00153 s / 60.660 custo	0.01567 s / 73.413 custo	0.07717 s / 88.221 custo	0.15626 s / 94.537 custo	0.30805 s / 74.788 custo	10	0.00153 s / 60.660 custo	0.01567 s / 73.413 custo	0.07717 s / 88.221 custo	0.15626 s / 94.537 custo	0.30805 s / 74.788 custo						
20	0.00701 s / 327.35 custo	0.04222 s / 111.113 custo	0.15908 s / 142.760 custo	0.17173 s / 165.798 custo		20	0.00744 s / 150.380 custo	0.06805 s / 129.874 custo	0.30226 s / 150.380 custo	0.60236 s / 146.998 custo	1.18578 s / 126.456 custo	20	0.00759 s / 280.972 custo	0.08105 s / 213.914 custo	0.40415 s / 231.948 custo	0.80131 s / 206.703 custo	1.61815 s / 238.169 custo	20	0.00759 s / 280.972 custo	0.08105 s / 213.914 custo	0.40415 s / 231.948 custo	0.80131 s / 206.703 custo	1.61815 s / 238.169 custo						
40	0.05039 s / 1144.572 custo	0.49414 s / 606.021 custo	2.22027 s / 505.292 custo	4.33456 s / 496.094 custo	8.62299 s / 421.716 custo	40	0.04806 s / 145.831 custo	0.48025 s / 460.213 custo	2.20029 s / 321.569 custo	4.35949 s / 350.493 custo	8.63713 s / 381.174 custo	40	0.04545 s / 1286.156 custo	0.51711 s / 691.594 custo	2.68818 s / 806.399 custo	5.4414 s / 750.944 custo	10.93522 s / 760.874 custo	40	0.04545 s / 1286.156 custo	0.51711 s / 691.594 custo	2.68818 s / 806.399 custo	5.4414 s / 750.944 custo	10.93522 s / 760.874 custo						
80	0.3935 s / 7072.658 custo	3.69006 s / 3948.624 custo	16.45498 s / 2514.64 custo	32.25858 s / 3597.158 custo	63.72794 s / 3302.591 custo	80	0.44079 s / 6991.03 custo	3.66269 s / 4559.528 custo	16.90398 s / 2960.998 custo	32.43303 s / 2448.07 custo	64.01521 s / 2860.088 custo	80	0.38484 s / 7293.321 custo	4.29546 s / 6096.842 custo	19.19556 s / 3171.019 custo	37.77226 s / 1722.855 custo	75.32466 s / 2626.705 custo	80	0.38484 s / 7293.321 custo	4.29546 s / 6096.842 custo	19.19556 s / 3171.019 custo	37.77226 s / 1722.855 custo	75.32466 s / 2626.705 custo						
100	0.74055 s / 11481.001 custo	7.12299 s / 6037.779 custo	31.34405 s / 5586.159 custo			100	0.77122 s / 11511.019 custo	6.96324 s / 7059.352 custo	32.06844 s / 3981.156 custo	32.43303 s / 2448.07 custo		100	0.74164 s / 11177.938 custo	6.1424 s / 1827.270 custo	33.56027 s / 2911.481 custo	286.14799 s / 34149.796 custo		100	0.74164 s / 11177.938 custo	6.1424 s / 1827.270 custo	33.56027 s / 2911.481 custo	286.14799 s / 34149.796 custo							
200	6.02133 s / 68584.61 custo	59.00023 s / 41002.042 custo	261.48039 s / 39623.461 custo			200	6.97106 s / 59472.854 custo	60.05907 s / 41253.813 custo	267.2005 s / 29542.196 custo			200	6.43093 s / 59401.784 custo	62.99486 s / 41542.706 custo				200	6.43093 s / 59401.784 custo	62.99486 s / 41542.706 custo									
SIMULATED_ANNEALING										SIMULATED_ANNEALING										SIMULATED_ANNEALING									
INITIAL_TEMP = 1000 COOLING = 0.01										INITIAL_TEMP = 1000 COOLING = 0.1										INITIAL_TEMP = 1000 COOLING = 1									
PROBLEM_SIZE										PROBLEM_SIZE										PROBLEM_SIZE									
ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000	ITERATIONS	10	100	500	1000	2000						
10	0.00121 s / 157.519 custo	0.00471 s / 62.567 custo	0.05531 s / 59.039 custo	0.10995 s / 69.609 custo	0.21368 s / 68.345 custo	10	0.00134 s / 85.465 custo	0.01224 s / 68.117 custo	0.05763 s / 74.971 custo	0.10707 s / 47.041 custo	0.21393 s / 61.212 custo	10	0.00159 s / 85.918 custo	0.01583 s / 68.364 custo	0.07098 s / 62.623 custo	0.15820 s / 68.675 custo	0.31487 s / 91.029 custo	10	0.00159 s / 85.918 custo	0.01583 s / 68.364 custo	0.07098 s / 62.623 custo	0.15820 s / 68.675 custo	0.31487 s / 91.029 custo						
20	0.00719 s / 320.312 custo	0.02644 s / 116.914 custo	0.10970 s / 150.380 custo	0.17259 s / 146.859 custo		20	0.00752 s / 169.875 custo	0.06505 s / 150.380 custo	0.30626 s / 150.380 custo	0.60236 s / 146.998 custo	1.18578 s / 126.456 custo	20	0.00759 s / 280.972 custo	0.08105 s / 213.914 custo	0.40415 s / 231.948 custo	0.80131 s / 206.703 custo	1.61815 s / 238.169 custo	20	0.00759 s / 280.972 custo	0.08105 s / 213.914 custo	0.40415 s / 231.948 custo	0.80131 s / 206.703 custo	1.61815 s / 238.169 custo						
40	0.05026 s / 1227.883 custo	0.49041 s / 606.021 custo	2.22027 s / 505.292 custo	4.33456 s / 496.094 custo	8.62299 s / 421.716 custo	40	0.04806 s / 145.831 custo	0.48025 s / 460.213 custo	2.20029 s / 321.569 custo	4.35949 s / 350.493 custo	8.63713 s / 381.174 custo	40	0.04545 s / 1286.156 custo	0.51711 s / 691.594 custo	2.68818 s / 806.399 custo	5.4414 s / 750.944 custo	10.93522 s / 760.874 custo	40	0.04545 s / 1286.156 custo	0.51711 s / 691.594 custo	2.68818 s / 806.399 custo	5.4414 s / 750.944 custo	10.93522 s / 760.874 custo						
80	0.404 s / 6996.639 custo	3.55558 s / 4483.713 custo	16.45498 s / 2514.64 custo	32.25858 s / 3597.158 custo	63.72794 s / 3302.591 custo	80	0.38865 s / 6296.612 custo	3.73909 s / 3659.516 custo	16.76368 s / 2457.817 custo	32.25818 s / 2398.58 custo	63.26689 s / 2297.336 custo	80	0.44868 s / 6628.71 custo	4.50012 s / 7051.848 custo	19.19556 s / 3171.019 custo	37.77226 s / 1722.855 custo	75.32466 s / 2626.705 custo	80	0.44868 s / 6628.71 custo	4.50012 s / 7051.848 custo	19.19556 s / 3171.019 custo	37.77226 s / 1722.855 custo	75.32466 s / 2626.705 custo						
100	0.77059 s / 11890.691 custo	7.12565 s / 6027.235 custo	31.22502 s / 5579.193 custo			100	0.82026 s / 11152.395 custo	7.29592 s / 6172.456 custo	32.42348 s / 3962.818 custo	32.43303 s / 2448.07 custo		100	0.85959 s / 11684.873 custo	6.83074 s / 7075.237 custo	33.56027 s / 2911.481 custo	286.14799 s / 34149.796 custo		100	0.85959 s / 11684.873 custo	6.83074 s / 7075.237 custo	33.56027 s / 2911.481 custo	286.14799 s / 34149.796 custo							
200	6.09094 s / 56722.953 custo	61.05559 s / 41779.534 custo	254.88201 s / 38783.818 custo			200	6.46149 s / 55755.524 custo	57.58565 s / 40525.452 custo	262.90074 s / 29554.256 custo			200	7.99754 s / 56281.760 custo	67.96901 s / 50532.604 custo				200	7.99754 s / 56281.760 custo	67.96901 s / 50532.604 custo									

TABU_SIZE = 10						TABU_SIZE = 20						TABU_SIZE = 50						TABU_SIZE = 100									
TABU						TABU						TABU						TABU									
PROBLEM_SIZE	ITERATIONS	10	100	500	1000	2000	PROBLEM_SIZE	ITERATIONS	10	100	500	1000	2000	PROBLEM_SIZE	ITERATIONS	10	100	500	1000	2000	PROBLEM_SIZE	ITERATIONS	10	100	500	1000	2000
10		0,012	0,082	0,388	0,768	1,508	10		0,011	0,08	0,383	0,759	1,511	10		0,022	0,089	0,405	0,768	1,518	10		0,021	0,088	0,395	0,77	1,525
20	0,040	0,441	2,225	4,465	9,033		20		0,05	0,464	2,288	4,499	11,085	20		0,091	0,517	2,586	5,016	9,337	20		0,048	0,481	2,429	5,053	9,925
40	0,313	2,832	15,12	32,182	65,855		40		0,329	3,211	16,032	32,52	65,052	40		0,327	3,143	15,938	31,773	63,969	40		0,403	3,389	16,272	31,16	64,34
80	2,41	24,45	132,108	317,27	649,08		80		3,105	29,852	153,11	283,511	563,903	80		3,428	32,702	162,867	328,673	777,305	80		3,186	32,18	162,225	342,863	634,6

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		ITERATIONS							ITERATIONS							ITERATIONS							ITERATIONS				
PROBLEM_SIZE		10	100	500	1000	2000	PROBLEM_SIZE		10	100	500	1000	2000	PROBLEM_SIZE		10	100	500	1000	2000	PROBLEM_SIZE		10	100	500	1000	2000
10	66.48	65.912	65.004	61.32	64.033		10	65.887	70.631	80.098	75.634	69.364		10	69.951	98.701	79.002	72.229	70.2		10	65.23	67.2	63.075	73.761	68.535	
20	280.43	246.612	238.30	245.244	231.348		20	300.261	298.799	238.453	298.783	234.003		20	330.258	218.898	249.772	225.341	265.003		20	296.195	209.383	231.798	259.076	250.597	
40	1534.441	1332.245	1431.81	1602.455	1425.507		40	1780.387	1386.43	1464.46	1610.528	1510.528		40	1654.533	1510.528	1750.054	1677.445	1433.754		40	1649.841	1707.281	1806.946	1549.526	1602.980	
80	7455.36	7249.562	7202.624	7314.879	7426.781		80	7312.932	7335.154	7341.935	7411.186	7413.447		80	7288.105	7400.594	7345.22	7555.393	7225.777		80	7212.429	7459.413	7456.171	7512.497	7311.883	

