85s Time Limit Analysis - Data

N Density Index Is_name move_strg rmr_duratio number						
1000 1 1 bs_array best_move 85.047	703 210545 208278.485 639.586851					
1000 1 1 bs_array first_move 85.002	22653 211080 208550.838 620.0062	1061.800335 28.972743				
1000 1 1 tree best_move 85.016 1000 1 1 tree first_move 85.004	3992 210727 208254.248 620.908037 7463 210735 208549.738 618.28804	758.313627 20.498065 1061.872035 28.485923	0			
1000 1 1 tree first_move 85.004 1000 1 1 basic first_move 85.122	939 210446 208562.123 632.559604		0			
1000 1 2 bs_array best_move 85.065	719 206405 204409.944 628.475998	754.598053 20.235087	0			
1000 1 2 bs_array first_move 85.001	22908 206906 204636.545 599.910409	1060.168413 28.84487	0			
1000 1 2 tree best_move 85.013	4084 206749 204419.269 618.415698	753.833986 20.079088	0			
1000 1 2 tree first_move 85.005	7877 206691 204642.423 600.618433	1060.355846 28.786973	0			
1000 1 2 basic first_move 85.007	932 206189 204634.733 590.259334		0			
1000 1 3 bs_array best_move 85.056	736 204475 203048.824 569.370236	748.305707 19.871127	0			
1000 1 3 bs_array first_move 85.001	23542 205556 203258.935 573.829224	1051.541373 28.372548	0			
1000 1 3 tree best_move 85.011 1000 1 3 tree first_move 85.013	4213 205110 203033.954 571.950375 8341 205672 203257.006 579.498959	748.602421 19.610636 1051.93442 28.450073	0			
1000 1 3 tree list_move 65.013	964 205138 203247.940 577.865345	1051.789419 28.480033	0			
1000 1 4 bs_array best_move 85.114	717 213386 211538.451 609.465685	759.317992 20.284088	0			
1000 1 4 bs_array first_move 85.004	22726 213986 211773.777 604.537102	1069.36214 28.630343				
1000 1 4 tree best_move 85.018	4055 213541 211511.388 589.583559	759.516646 19.531508	0			
1000 1 4 tree first_move 85.001	7798 213766 211781.007 591.01381	1069.637086 28.885991	0			
1000 1 4 basic first_move 85.019	889 214087 211807.473 613.75806	1069.872891 29.756126	0			
1000 1 5 bs_array best_move 85.077	719 211427 209819.663 619.425393	758.16968 21.253857	0			
1000 1 5 bs_array first_move 85.001	22523 212510 210013.550 614.505376	1063.658704 28.871376	0			
1000 1 5 tree best_move 85.014 1000 1 5 tree first move 85.003	4010 212074 209851.054 610.674155 7490 212248 210030.622 619.86509	756.900499 20.06709 1063.824566 28.555816	0			
1000 1 5 tree first_move 85.003 1000 1 5 basic first_move 85.063	930 211674 210002.103 624.48721	1063.824566 28.555816	0			
1000 1 5 basic lilist_move 85.063	223 856865 853135.533 1523.10604	1151.591928 40.492476	0			
1000 5 1 bs_array first_move 85.015	3763 858973 854168.461 1439.37091	1775.59341 52.821597				
1000 5 1 tree best_move 85.081	777 858218 853190.727 1547.35243	1149.595882 40.871288	0			
1000 5 1 tree first_move 85.046	684 858450 854292.706 1434.10397	1779.913743 52.319837	0			
1000 5 1 basic first_move 85.138	566 858905 854135.524 1452.15148	1776.883392 51.228621	0			
1000 5 2 bs_array best_move 85.058	222 862031 857685.373 1521.96923	1156.509009 39.426833	0			
1000 5 2 bs_array first_move 85.012	3722 864274 858683.357 1499.66469 769 863482 857658.685 1552.51940	1783.432563 54.379519	0			
1000 5 2 tree best_move 85.055 1000 5 2 tree first_move 85.102	676 863695 858589.278 1572.52732	1152.721717 41.273304 1782.315089 52.953059	0			
1000 5 2 basic first_move 85.089	579 862888 858640.664 1548.19245	1785.697755 53.470604	0			
1000 5 3 bs array best move 85.289	224 865835 862810.857 1404.01637	1149.334821 42.632561	0			
1000 5 3 bs_array first_move 85.01	3748 869131 863893.345 1443.00685	1781.233725 52.945183	0			
1000 5 3 tree best_move 85.026	770 867295 862875.353 1546.83542	1150.51039 40.458997	0			
1000 5 3 tree first_move 85.036	680 868187 863847.939 1516.28568	1781.727941 55.13455	0			
1000 5 3 basic first_move 85.039	616 867989 863836.379 1369.43489	1777.301948 54.144975	0			
1000 5 4 bs_array best_move 85.156 1000 5 4 bs_array first move 85.004	224 866398 862037.598 1625.87247 3768 868482 863135.889 1445.45188	1147.683036 41.098558 1775.844214 53.078637	0			
1000 5 4 bs_array first_move 85.004 1000 5 4 tree best move 85.083	780 866386 862038.748 1492.58649	11/75.844214 53.078637	0			
1000 5 4 tree first_move 85.125	686 867134 863149.701 1531.63143	1772 900875 55 606217	0			
1000 5 4 basic first_move 85.049	591 867489 863044.453 1484.85419	1774.725888 54.481056	0			
1000 5 5 bs_array best_move 85.201	224 860558 856673.642 1522.92303	1150.473214 42.647948	0			
1000 5 5 bs_array first_move 85.007	3757 862678 857720.985 1510.44961	1784.066542 53.618998	0			
1000 5 5 tree best_move 85.093	756 861589 856634.920 1604.61266	1149.194444 40.741806	0			
1000 5 5 tree first_move 85.078	673 863317 857753.472 1540.68626	1782.092125 53.450152	0			
1000 5 5 basic first_move 85.075	570 861876 857650.291 1504.83543		0			
1000 10 1 bs_array best_move 85.597 1000 10 1 bs_array first_move 85.017	126 1606672 1602408.89 1876.64824 1364 1610644 1604014.45 2132.97529		0			
1000 10 1 bs_array first_move 85.017 1000 10 1 tree best move 85.092	297 1608684 1602743.60 2321.84193	1316.6633 52.677864	0			
1000 10 1 tree first_move 85.001	217 1609352 1603995.35 2244.78303		-			
1000 10 1 basic first_move 85.144	449 1609903 1604021.89 2065.55288					
1000 10 2 bs_array best_move 85.383	124 1627199 1622055.95 2259.87938		0			
1000 10 2 bs_array first_move 85.055	1356 1631673 1623566.89 2155.85810		0			
1000 10 2 tree best_move 85.006	293 1629761 1621965.96 2285.73850		0			
1000 10 2 tree first_move 85.143	216 1629731 1623771.18 2180.64775		0			
1000 10 2 basic first_move 85.213	470 1629224 1623669.13 2196.20837		0			
1000 10 3 bs_array best_move 85.232 1000 10 3 bs_array first_move 85.006	124 1626905 1621497.04 2141.30179 1361 1630446 1623184.13 2093.32779		0			
1000 10 3 bs_array first_move 85.006 1000 10 3 tree best_move 85.074	300 1628102 1621699.83 2363.85844	1321.3 51.598934	0			
1000 10 3 tree best_move 85.074 1000 10 3 tree first_move 85.035	223 1629588 1623102.43 2127.48866		0			
1000 10 3 basic first_move 85.139	477 1630317 1623086.61 2128.81577		0			
1000 10 4 bs_array best_move 85.365	124 1624034 1617200.37 2076.94693		0			
1000 10 4 bs_array first_move 85.003	1362 1625210 1618525.61 1976.18682	2122.0837 68.39826	0			
1000 10 4 tree best_move 85.008	302 1623216 1617144.75 2171.54780	1315.31457 55.290357	0			
1000 10 4 tree first_move 85.223	223 1624517 1618444.78 2134.05934		0			
1000 10 4 basic first_move 85.168	422 1624457 1618628.46 2060.78120	2123.490521 69.85787	0			

85s Time Limit Analysis - Data

1000 10 5 bs_array best_move	85.198 124 1622785	5 1616346.45 2278.65339 13	8.556452	57.520866 0				
1000 10 5 bs_array first_move	85.057 1354 1624266	6 1617787.24 2051.11207 21	0.902511	66.780042 0				
1000 10 5 tree best move	85.155 295 1622811	1 1616565.72 2311.03558 13	8.922034	56.486363 0				
1000 10 5 tree first move			0.607306	66 683955				
			8.788546					
1000 50 1 bs_array best_move				85.248922 2				
1000 50 1 bs_array first_move	85.14 82 8081427	7 8070350.58 4021.06630 30	7.304878	129.277796 0				
1000 50 1 tree best_move	85.486 27 8074227	7 8068952.96 4168.30658 17	8.592593	90.293455 1				
1000 50 1 tree first_move	88.048 17 8079901	1 8071299.70 5054.17598 29	6.294118	137.439084 1				
1000 50 1 basic first_move	85.329 276 8085394	4 8069962.47 4517.99153 30	1.485507	122.163245 0				
1000 50 2 bs array best move		5 8065315.4 4726.07759	1691.1	84.666345 2				
1000 50 2 bs_array first_move			97.13253					
1000 50 2 tree best_move			7.925926					
1000 50 2 tree first_move			1.411765					
1000 50 2 basic first_move	85.247 268 8080107	7 8068980.60 4858.19243 30	0.175373	130.152763 0				
1000 50 3 bs_array best_move	86.42 20 8072887	7 8065403.3 3855.79982	1715.8	93.827821 2				
1000 50 3 bs_array first_move	85.04 82 8079116	8066876.5 4501.65041 30	4.817073	128.718271 0				
1000 50 3 tree best_move	86.442 27 8076225	5 8065988.37 5470.26144 17	6.814815	101.816479 1				
1000 50 3 tree first move			7.294118					
1000 50 3 basic first_move		8 8066265.54 4573.03434		132.3296 0				
1000 50 4 bs_array best_move			9.190476					
1000 50 4 bs_array first_move			88.337349					
1000 50 4 tree best_move		8066819.39 4619.59857		84.018918 1				
1000 50 4 tree first_move	89.113 17 8077041	1 8068566.47 4945.12167 30	1.352941	120.68137 1				
1000 50 4 basic first_move	85.147 276 8084693	8069413.53 4675.69270 30	3.119565	131.839701 0				
1000 50 5 bs_array best_move	85.18 20 8075873	8063906.65 4538.86359	1687.65	88.973746 2				
1000 50 5 bs_array first_move	85.029 82 8074835	5 8065799.52 4822.50401 30	9.817073	128.837876 0				
1000 50 5 tree best_move	85.685 27 8071794	4 8064356.70 4899.49510 16	4.037037	84 017847 1				
1000 50 5 tree first move	89.481 17 8071560		6.705882					
			7.047297					
1000 100 1 bs_array best_move			1.777778					
1000 100 1 bs_array first_move				146.13255 0				
1000 100 1 tree best_move	87.449 11 2576313	3 25757796.5 2687.45072 18	5.909091	65.67614 3				
1000 100 1 tree first_move	97.752 7 2576729	25760514.1 4042.36845	3374	117.293283 3				
1000 100 1 basic first_move	85.155 226 2577106	3 25759466.0 4987.22209 33	8.929204	141.893748 0				
1000 100 2 bs_array best_move	92.317 9 2576650	25760953.6 3594.39219 18	3.333333	110.804131 4.222222				
1000 100 2 bs_array first_move	88.414 24 2577293	3 25762421.4 4248.10878 34	9.333333	177.837629 0				
1000 100 2 tree best move			3.454545					
		1 25760454.7 4742.23257		111.502723 3				
1000 100 2 basic first_move			08.72807					
1000 100 3 bs_array best_move			1.666667					
1000 100 3 bs_array first_move		9 25794452.5 3971.72018		146.070545 0				
1000 100 3 tree best_move	85.31 11 2579950	25793105.9 4269.85984	1769	59.022338 3				
1000 100 3 tree first_move	97.136 7 2579862	2 25794662.7 4136.55694	3340	104.683196 3				
1000 100 3 basic first_move	85.191 224 2580800	25795078.8 5017.94587 33	1.450893	165.742343 0				
1000 100 4 bs_array best_move	88.893 9 2581915	5 25809034.1 5423.53957 18	3.111111	108.388647 4.444444				
1000 100 4 bs_array first_move			3.791667					
1000 100 4 tree best move			4.636364					
1000 100 4 tree first_move			6.142857					
1000 100 4 basic first_move			4.812227					
1000 100 5 bs_array best_move			6.888889					
1000 100 5 bs_array first_move	85.305 23 2577479	9 25765722.2 4513.99688 3	95.26087	150.857611 0				
1000 100 5 tree best_move	86.834 11 2576990	25762560.9 4332.32938 18	2.363636	76.522454 3				
1000 100 5 tree first_move	85.741 6 2577025	5 25763422.1 4139.61400 34	7.666667	135.989787 3				
1000 100 5 basic first_move		8 25763414.1 4821.69429 34						

85s Time Limit Analysis - Best Solution

N	Density In	ndex B	Best F Algorithm	Strategy	# Runs	F Mean	F SD	SD Distance Factor	Field					
1000	1	1	211080 bs_array	first_move	22653	208550.838	620.0062	4.079251632	fo_max					
1000	1	2	206906 bs_array	first_move	22908	204636.545	599.910409	3.782989131						
1000	1	3	205672 tree	first_move	8341	203257.006	579.498959	4.167381785						
1000	1	4	214087 basic	first_move	889	211807.473	613.75806	3.714047249						
1000	1	5	212510 bs_array	first_move	22523	210013.550	614.505376	4.062535124						
1000	5	1	858973 bs_array	first_move	3763	854168.461	1439.37091	3.337943426						
1000	5	2	864274 bs_array	first_move	3722	858683.357	1499.66469	3.727928267						
1000	5	3	869131 bs_array	first_move	3748	863893.345	1443.00685	3.62968094						
1000	5	4	868482 bs_array	first_move	3768	863135.889	1445.45188	3.698574131						
1000	5	5	863317 tree	first_move	673	857753.472	1540.68626	3.61107101						
1000	10	1	1610644 bs_array	first_move	1364	1604014.45	2132.97529	3.108122443						
1000	10	2	1631673 bs_array	first_move	1356	1623566.89	2155.85810	3.760034582						
1000	10	3	1630446 bs_array	first_move	1361	1623184.13	2093.32779	3.469053572						
1000	10	4	1625210 bs_array	first_move	1362	1618525.61	1976.18682	3.382464882						
1000	10	5	1624266 bs_array	first_move	1354	1617787.24	2051.11207	3.158656144						
1000	50	1	8085394 basic	first_move	276	8069962.47	4517.99153	3.415571196						
1000	50	2	8080107 basic	first_move	268	8068980.60	4858.19243	2.290233594						
1000	50	3	8081323 basic	first_move	300	8066265.54	4573.03434	3.292661327						
1000	50	4	8084693 basic	first_move	276	8069413.53	4675.69270	3.267851069						
1000	50	5	8077997 basic	first_move	296	8065083.87	4507.61536	2.864736085						
1000	100	1	25771063 basic	first_move	226	25759466.0	4987.22209	2.325335502						
1000	100	2	25773238 basic	first_move	228	25760603.7	4998.15689	2.527774772						
1000	100	3	25808006 basic	first_move	224	25795078.8	5017.94587	2.576177757						
1000	100	4	25821345 basic	first_move	229	25807450.6	5624.06034	2.470523909						
1000	100	5	25776481 basic	first_move	226	25763414.1	4821.69429	2.710015704						

85s Time Limit Analysis - Best Mean

N D	ensity I	ndex Best F Mean Algorithm	Strategy	# Runs	F Max	F SD	% Distance from Best F Field					
1000	1	1 208562.1235 basic	first_move	939	210446	632.559604	1.19% fo_mean					
1000	1	2 204642.4234 tree	first_move	7877	206691	600.618433	1.09%					
1000	1	3 203258.9357 bs_array	first_move	23542	205556	573.829224	1.17%					
1000	1	4 211807.4736 basic	first_move	889	214087	613.75806	1.06%					
1000	1	5 210030.6227 tree	first_move	7490	212248	619.86509	1.17%					
1000	5	1 854292.7061 tree	first_move	684	858450	1434.10397	0.54%					
1000	5	2 858683.3576 bs_array	first_move	3722	864274	1499.66469	0.65%					
1000	5	3 863893.3455 bs_array	first_move	3748	869131	1443.00685	0.60%					
1000	5	4 863149.7012 tree	first_move	686	867134	1531.63143	0.61%					
1000	5	5 857753.4725 tree	first_move	673	863317	1540.68626	0.64%					
1000	10	1 1604021.898 basic	first_move	449	1609903	2065.55288	0.41%					
1000	10	2 1623771.185 tree	first_move	216	1629731	2180.64775	0.48%					
1000	10	3 1623184.134 bs_array	first_move	1361	1630446	2093.32779	0.45%					
1000	10	4 1618628.462 basic	first_move	422	1624457	2060.78120	0.40%					
1000	10	5 1617933.207 basic	first_move	454	1624151	2004.77690	0.39%					
1000	50	1 8071299.706 tree	first_move	17	8079901	5054.17598	0.17%					
1000	50	2 8068980.604 basic	first_move	268	8080107	4858.19243	0.14%					
1000	50	3 8066876.5 bs_array	first_move	82	8079116	4501.65041	0.18%					
1000	50	4 8069413.533 basic	first_move	276	8084693	4675.69270	0.19%					
1000	50	5 8065799.524 bs_array	first_move	82	8074835	4822.50401	0.15%					
1000	100	1 25760862.25 bs_array	first_move	24	2576863	4361.53482	0.04%					
1000	100	2 25762421.46 bs_array	first_move	24	2577293	4248.10878	0.04%					
1000	100	3 25795078.88 basic	first_move	224	2580800	5017.94587	0.05%					
1000	100	4 25809034.11 bs_array	best_mov	9	2581915	5423.53957	0.05%					
1000	100	5 25765722.26 bs_array	first_move	23	2577479	4513.99688	0.04%					

85s Time Limit Analysis - Number of Runs

		Algorithm	bs_array	bs_array	tree	tree	basic	Property
		Strategy	best_move	first_move	best_move	first_move	first_move	number_of_runs
N	Density	Index						
1000	1	1	703	22653	3992	7463	939	
1000	1	2	719	22908	4084	7877	932	
1000	1	3	736	23542	4213	8341	964	
1000	1	4	717	22726	4055	7798	889	
1000	1	5	719	22523	4010	7490	930	
1000	5	1	223	3763	777	684	566	
1000	5	2	222	3722	769	676	579	
1000	5	3	224	3748	770	680	616	
1000	5	4	224	3768	780	686	591	
1000	5	5	224	3757	756	673	570	
1000	10	1	126	1364	297	217	449	
1000	10	2	124	1356	293	216	470	
1000	10	3	124	1361	300	223	477	
1000	10	4	124	1362	302	223	422	
1000	10	5	124	1354	295	219	454	
1000	50	1	21	82	27	17	276	
1000	50	2	20	83	27	17	268	
1000	50	3	20	82	27	17	300	
1000	50	4	21	83	28	17	276	
1000	50	5	20	82	27	17	296	
1000	100	1	9	24	11	7	226	
1000	100	2	9	24	11	7	228	
1000	100	3	9	24	11	7	224	
1000	100	4	9	24	11	7	229	
1000	100	5	9	23	11	6	226	
		Runs Bes						
N	Density	Index	bs_array factor	tree factor				

85s Time Limit Analysis - Number of Runs

1000	1	1	32.22332859	1.869488978				
1000	1	2	31.86091794	1.928746327				
1000	1	3	31.98641304	1.979824353				
1000	1	4	31.69595537	1.923057953				
1000	1	5	31.32545202	1.867830424				
1000	5	1	16.87443946	0.8803088803				
1000	5	2	16.76576577	0.8790637191				
1000	5	3	16.73214286	0.8831168831				
1000	5	4	16.82142857	0.8794871795				
1000	5	5	16.77232143	0.8902116402				
1000	10	1	10.82539683	0.7306397306				
1000	10	2	10.93548387	0.7372013652				
1000	10	3	10.97580645	0.7433333333				
1000	10	4	10.98387097	0.738410596				
1000	10	5	10.91935484	0.7423728814				
1000	50	1	3.904761905	0.6296296296				
1000	50	2	4.15	0.6296296296				
1000	50	3	4.1	0.6296296296				
1000	50	4	3.952380952	0.6071428571				
1000	50	5	4.1	0.6296296296				
1000	100	1	2.666666667	0.6363636364				
1000	100	2	2.666666667	0.6363636364				
1000	100	3	2.666666667	0.6363636364				
1000	100	4	2.666666667	0.6363636364				
1000	100	5	2.55555556	0.5454545455				
			•					

85s Time Limit Analysis - F Mean

		Algorithm	bs_array	bs_array	tree	tree	basic	Property
		Strategy	best_move	first_move	best_move	first_move	first_move	fo_mean
N	Density	Index						
1000	1	1	208278.4851	208550.8387	208254.2482	208549.7387	208562.1235	
1000	1	2	204409.9444	204636.5454	204419.2693	204642.4234	204634.7339	
1000	1	3	203048.8247	203258.9357	203033.9549	203257.0066	203247.9409	
1000	1	4	211538.4519	211773.7777	211511.3884	211781.0077	211807.4736	
1000	1	5	209819.6634	210013.5503	209851.0549	210030.6227	210002.1032	
1000	5	1	853135.5336	854168.4613	853190.7272	854292.7061	854135.5247	
1000	5	2	857685.3739	858683.3576	857658.6853	858589.2781	858640.6649	
1000	5	3	862810.8571	863893.3455	862875.3532	863847.9397	863836.3799	
1000	5	4	862037.5982	863135.8891	862038.7487	863149.7012	863044.4535	
1000	5	5	856673.6429	857720.9851	856634.9206	857753.4725	857650.2912	
1000	10	1	1602408.897	1604014.452	1602743.606	1603995.35	1604021.898	
1000	10	2	1622055.952	1623566.899	1621965.962	1623771.185	1623669.138	
1000	10	3	1621497.04	1623184.134	1621699.837	1623102.439	1623086.612	
1000	10	4	1617200.379	1618525.617	1617144.755	1618444.78	1618628.462	
1000	10	5	1616346.452	1617787.242	1616565.722	1617588.461	1617933.207	
1000	50	1	8067982.476	8070350.585	8068952.963	8071299.706	8069962.478	
1000	50	2	8065315.4	8068253.807	8066658.815	8068871.118	8068980.604	
1000	50	3	8065403.3	8066876.5	8065988.37	8064555.294	8066265.547	
1000	50	4	8065309.381	8068816.687	8066819.393	8068566.471	8069413.533	
1000	50	5	8063906.65	8065799.524	8064356.704	8065072	8065083.872	
1000	100	1	25754329.11	25760862.25	25757796.55	25760514.14	25759466.04	
1000	100	2	25760953.67	25762421.46	25760414.09	25760454.71	25760603.79	
1000	100	3	25792954.11	25794452.58	25793105.91	25794662.71	25795078.88	
1000	100	4	25809034.11	25807152.58	25805756.27	25807096	25807450.62	
1000	100	5	25760529.56	25765722.26	25762560.91	25763422.17	25763414.13	

85s Time Limit Analysis - F Mean

#Firs	t Strategy	y Value / B	est Strategy Valu	ie
N	Density	Index	bs_array factor	tree factor
1000	1	1	1.001307642	1.001418893
1000	1	2	1.001108562	1.001091649
1000	1	3	1.00103478	1.001098593
1000	1	4	1.00111245	1.001274727
1000	1	5	1.000924065	1.000855692
1000	5	1	1.001210743	1.001291597
1000	5	2	1.001163578	1.001085039
1000	5	3	1.001254607	1.001127146
1000	5	4	1.001274064	1.00128875
1000	5	5	1.001222569	1.001305751
1000	10	1	1.001001963	1.000781001
1000	10	2	1.000931501	1.001112984
1000	10	3	1.001040454	1.000864897
1000	10	4	1.000819465	1.000803902
1000	10	5	1.000891387	1.000632662
1000	50	1	1.000293519	1.000290836
1000	50	2	1.000364326	1.000274253
1000	50	3	1.000182657	0.999822331
1000	50	4	1.000434863	1.000216576
1000	50	5	1.000234734	1.000088698
1000	100	1	1.000253671	1.000105506
1000	100	2	1.000056977	1.000001577
1000	100	3	1.000058096	1.000060357
1000	100	4	0.9999270981	1.000051916
1000	100	5	1.000201576	1.000033431

85s Time Limit Analysis - F Mean Relative

		Algorithm	bs_array	bs_array	tree	tree	basic	Property
		Strategy	best_move	first_move	best_move	first_move	first_move	fo_mean
N	Density	Index						
1000	1	1	0.1360%	0.0054%	0.1476%	0.0059%	0.0000%	
1000	1	2	0.1136%	0.0029%	0.1090%	0.0000%	0.0038%	
1000	1	3	0.1034%	0.0000%	0.1107%	0.0009%	0.0054%	
1000	1	4	0.1270%	0.0159%	0.1398%	0.0125%	0.0000%	
1000	1	5	0.1004%	0.0081%	0.0855%	0.0000%	0.0136%	
1000	5	1	0.1355%	0.0145%	0.1290%	0.0000%	0.0184%	
1000	5	2	0.1162%	0.0000%	0.1193%	0.0110%	0.0050%	
1000	5	3	0.1253%	0.0000%	0.1178%	0.0053%	0.0066%	
1000	5	4	0.1288%	0.0016%	0.1287%	0.0000%	0.0122%	
1000	5	5	0.1259%	0.0038%	0.1304%	0.0000%	0.0120%	
1000	10	1	0.1006%	0.0005%	0.0797%	0.0017%	0.0000%	
1000	10	2	0.1056%	0.0126%	0.1112%	0.0000%	0.0063%	
1000	10	3	0.1039%	0.0000%	0.0914%	0.0050%	0.0060%	
1000	10	4	0.0882%	0.0064%	0.0917%	0.0113%	0.0000%	
1000	10	5	0.0981%	0.0090%	0.0845%	0.0213%	0.0000%	
1000	50	1	0.0411%	0.0118%	0.0291%	0.0000%	0.0166%	
1000	50	2	0.0454%	0.0090%	0.0288%	0.0014%	0.0000%	
1000	50	3	0.0183%	0.0000%	0.0110%	0.0288%	0.0076%	
1000	50	4	0.0509%	0.0074%	0.0321%	0.0105%	0.0000%	
1000	50	5	0.0235%	0.0000%	0.0179%	0.0090%	0.0089%	
1000	100	1	0.0254%	0.0000%	0.0119%	0.0014%	0.0054%	
1000	100	2	0.0057%	0.0000%	0.0078%	0.0076%	0.0071%	
1000	100	3	0.0082%	0.0024%	0.0076%	0.0016%	0.0000%	
1000	100	4	0.0000%	0.0073%	0.0127%	0.0075%	0.0061%	
1000	100	5	0.0202%	0.0000%	0.0123%	0.0089%	0.0090%	

85s Time Limit Analysis - F Mean Relative

#Firs	t Strategy	y Value / B	est Strategy Valu	ie
N	Density	Index	bs_array factor	tree factor
1000	1	1	0.04	0.04
1000	1	2	0.03	0.00
1000	1	3	0.00	0.01
1000	1	4	0.13	0.09
1000	1	5	0.08	0.00
1000	5	1	0.11	0.00
1000	5	2	0.00	0.09
1000	5	3	0.00	0.04
1000	5	4	0.01	0.00
1000	5	5	0.03	0.00
1000	10	1	0.00	0.02
1000	10	2	0.12	0.00
1000	10	3	0.00	0.06
1000	10	4	0.07	0.12
1000	10	5	0.09	0.25
1000	50	1	0.29	0.00
1000	50	2	0.20	0.05
1000	50	3	0.00	2.61
1000	50	4	0.15	0.33
1000	50	5	0.00	0.50
1000	100	1	0.00	0.11
1000	100	2	0.00	0.98
1000	100	3	0.29	0.21
1000	100	4	#DIV/0!	0.59
1000	100	5	0.00	0.73

85s Time Limit Analysis - Mean Number of Moves

		Algorithm	bs_array	bs_array	tree	tree	basic	Property
		Strategy	best_move	first_move	best_move	first_move	first_move	n_moves_mear
N	Density	Index						
1000	1	1	758.736842	1061.800335	758.313627	1061.872035	1061.365282	
1000	1	2	754.598053	1060.168413	753.833986	1060.355846	1060.458155	
1000	1	3	748.305707	1051.541373	748.602421	1051.93442	1051.789419	
1000	1	4	759.317992	1069.36214	759.516646	1069.637086	1069.872891	
1000	1	5	758.16968	1063.658704	756.900499	1063.824566	1064.921505	
1000	5	1	1151.591928	1775.59341	1149.595882	1779.913743	1776.883392	
1000	5	2	1156.509009	1783.432563	1152.721717	1782.315089	1785.697755	
1000	5	3	1149.334821	1781.233725	1150.51039	1781.727941	1777.301948	
1000	5	4	1147.683036	1775.844214	1147.073077	1772.900875	1774.725888	
1000	5	5	1150.473214	1784.066542	1149.194444	1782.092125	1783.422807	
1000	10	1	1308.634921	2122.829179	1316.6633	2118.211982	2121.895323	
1000	10	2	1320.330645	2123.360619	1317.215017	2125.328704	2124.657447	
1000	10	3	1319.959677	2123.286554	1321.3	2118.147982	2123.366876	
1000	10	4	1323.629032	2122.0837	1315.31457	2119.452915	2123.490521	
1000	10	5	1318.556452	2120.902511	1318.922034	2120.607306	2118.788546	
1000	50	1	1676.952381	3027.304878	1708.592593	2976.294118	3011.485507	
1000	50	2	1691.1	2997.13253	1687.925926	3011.411765	3030.175373	
1000	50	3	1715.8	3024.817073	1716.814815	2947.294118	3011.48	
1000	50	4	1679.190476	2988.337349	1664.5	3011.352941	3023.119565	
1000	50	5	1687.65	3019.817073	1694.037037	3006.705882	3007.047297	
1000	100	1	1801.777778	3396.166667	1825.909091	3374	3398.929204	
1000	100	2	1893.333333	3449.333333	1823.454545	3407	3408.72807	
1000	100	3	1841.666667	3365.75	1769	3340	3391.450893	
1000	100	4	1813.111111	3393.791667	1834.636364	3336.142857	3424.812227	
1000	100	5	1796.888889	3495.26087	1802.363636	3447.666667	3419.783186	

85s Time Limit Analysis - Mean Number of Moves

First	#Moves	Mean / Be:	st #Moves Mean	
N	Density		bs_array factor	tree factor
1000		1	1.399431629	
1000	1	2	1.404944538	1.406617194
1000	1	3	1.405229658	
1000		4	1.408319243	ļ
1000		5	1.402929624	
1000	5		1.541859896	
1000			1.542082724	
1000			1.549795319	
1000			1.547329845	
1000		5	1.550724102	
1000			1.622170664	
1000		2	1.608203693	
1000	10	3	1.608599559	
1000	10	4	1.603231456	1.611365801
1000	10	5	1.608503381	1.607833709
1000	50	1	1.805242005	1.741956585
1000		2	1.772297635	
1000		3		
1000	50	4	1.779629763	1.809163677
1000		5	1.789362174	
1000	100	1	1.884897632	1.847846652
1000	100	2	1.821830986	1.868431549
1000	100	3	1.827556561	1.888072357
1000	100	4	1.871805675	1.818421853
1000	100	5	1.945173623	1.912858537

85s Time Limit Analysis - F Max

		Algorithm	bs_array	bs_array	tree	tree	basic		Property
		Strategy	best_move	first_move	best_move	first_move	first_move		fo_max
Z	Density	Index						Max F	
1000	1	1	210545	211080	210727	210735	210446	211080	
1000	1	2	206405	206906	206749	206691	206189	206906	
1000	1	3	204475	205556	205110	205672	205138	205672	
1000	1	4	213386	213986	213541	213766	214087	214087	
1000	1	5	211427	212510	212074	212248	211674	212510	
1000	5	1	856865	858973	858218	858450	858905	858973	
1000	5	2	862031	864274	863482	863695	862888	864274	
1000	5	3	865835	869131	867295	868187	867989	869131	
1000	5	4	866398	868482	866386	867134	867489	868482	
1000	5	5	860558	862678	861589	863317	861876	863317	
1000	10	1	1606672	1610644	1608684	1609352	1609903	1610644	
1000	10	2	1627199	1631673	1629761	1629731	1629224	1631673	
1000	10	3	1626905	1630446	1628102	1629588	1630317	1630446	
1000	10	4	1624034	1625210	1623216	1624517	1624457	1625210	
1000	10	5	1622785	1624266	1622811	1622992	1624151	1624266	
1000	50	1	8080185	8081427	8074227	8079901	8085394	8085394	
1000	50	2	8072885	8079490	8074375	8075718	8080107	8080107	
1000	50	3	8072887	8079116	8076225	8070236	8081323	8081323	
1000	50	4	8075375	8081254	8077876	8077041	8084693	8084693	
1000	50	5	8075873	8074835	8071794	8071560	8077997	8077997	
1000	100	1	25758623	25768638	25763139	25767298	25771063	25771063	
1000	100	2	25766506	25772933	25769772	25766915	25773238	25773238	
1000	100	3	25797609	25802493	25799506	25798621	25808006	25808006	
1000	100	4	25819158	25815870	25816777	25816751	25821345	25821345	
1000	100	5	25767280	25774796	25769906	25770259	25776481	25776481	

85s Time Limit Analysis - F Max

#Firs	t Strateg	v Value / B	lest Strategy Valu	le
N	Density		bs_array factor	tree factor
1000		1	1.002541024	
1000		2	1.002427267	
1000		3	1.00528671	
1000		4	1.002811806	
1000		5	1.005122335	+
1000		1	1.002460131	1.000270328
1000		2	1.002601995	
1000		3	1.00380673	
1000		4	1.002405361	
1000		5	1.002463518	
1000		1	1.002472191	
1000		2	1.00274951	
1000	10	3	1.002176525	1.000912719
1000	10	4	1.000724123	1.000801495
1000	10	5	1.000912629	1.000111535
1000	50	1	1.000153709	1.00070273
1000	50	2	1.000818171	1.000166329
1000	50	3	1.000771595	0.9992584407
1000	50	4	1.000728016	0.9998966312
1000	50	5	0.999871469	0.9999710102
1000	100	1	1.000388802	1.000161432
1000	100	2	1.000249432	0.9998891337
1000	100	3	1.00018932	0.999965697
1000	100	4	0.9998726527	0.9999989929
1000	100	5	1.000291688	1.000013698

85s Time Limit Analysis - F Relative Max

		Algorithm	bs_array	bs_array	tree	tree	basic	Property
		Strategy	best_move	first_move	best_move	first_move	first_move	fo_max
N	Density	Index						
1000	1	1	0.2535%	0.0000%	0.1672%	0.1634%	0.3004%	
1000	1	2	0.2421%	0.0000%	0.0759%	0.1039%	0.3465%	
1000	1	3	0.5820%	0.0564%	0.2733%	0.0000%	0.2596%	
1000	1	4	0.3274%	0.0472%	0.2550%	0.1499%	0.0000%	
1000	1	5	0.5096%	0.0000%	0.2052%	0.1233%	0.3934%	
1000	5	1	0.2454%	0.0000%	0.0879%	0.0609%	0.0079%	
1000	5	2	0.2595%	0.0000%	0.0916%	0.0670%	0.1604%	
1000	5	3	0.3792%	0.0000%	0.2112%	0.1086%	0.1314%	
1000	5	4	0.2400%	0.0000%	0.2413%	0.1552%	0.1143%	
1000	5	5	0.3196%	0.0740%	0.2002%	0.0000%	0.1669%	
1000	10	1	0.2466%	0.0000%	0.1217%	0.0802%	0.0460%	
1000	10	2	0.2742%	0.0000%	0.1172%	0.1190%	0.1501%	
1000	10	3	0.2172%	0.0000%	0.1438%	0.0526%	0.0079%	
1000	10	4	0.0724%	0.0000%	0.1227%	0.0426%	0.0463%	
1000	10	5	0.0912%	0.0000%	0.0896%	0.0784%	0.0071%	
1000	50	1	0.0644%	0.0491%	0.1381%	0.0679%	0.0000%	
1000	50	2	0.0894%	0.0076%	0.0709%	0.0543%	0.0000%	
1000	50	3	0.1044%	0.0273%	0.0631%	0.1372%	0.0000%	
1000	50	4	0.1153%	0.0425%	0.0843%	0.0946%	0.0000%	
1000	50	5	0.0263%	0.0391%	0.0768%	0.0797%	0.0000%	
1000	100	1	0.0483%	0.0094%	0.0307%	0.0146%	0.0000%	
1000	100	2	0.0261%	0.0012%	0.0134%	0.0245%	0.0000%	
1000	100	3	0.0403%	0.0214%	0.0329%	0.0364%	0.0000%	
1000	100	4	0.0085%	0.0212%	0.0177%	0.0178%	0.0000%	
1000	100	5	0.0357%	0.0065%	0.0255%	0.0241%	0.0000%	

85s Time Limit Analysis - F Relative Max

#Firs	t Strateg	v Value / B	est Strategy Valu	le
N	Density			tree factor
1000	1	1	0.00	
1000	1			
1000		3		
1000	1	4		
1000	1	5		
1000	5	1	0.00	
1000	5	2		
1000	5	3		
1000		4	0.00	0.64
1000	5	5	0.23	0.00
1000	10	1	0.00	
1000	10	2	0.00	1.02
1000	10	3	0.00	0.37
1000	10	4	0.00	0.35
1000	10	5	0.00	0.88
1000	50	1	0.76	0.49
1000	50	2	0.09	
1000	50	3	0.26	2.17
1000	50	4	0.37	1.12
1000	50	5	1.49	1.04
1000	100	1	0.19	0.48
1000	100	2	0.05	1.82
1000	100	3	0.53	1.10
1000	100	4	2.50	1.01
1000	100	5	0.18	0.95