

Array Implementation Analysis - Data

n	dens	inst_ind	ls_name	move_strg	round_strg	ls_time[s]	round_time_mean[ms]	fo_mean	fo_max
500	1	1	normal	best	fixed	0.019	0	58522.6666	58676
500	1	1	bs	best	fixed	0.02	0	58522.6666	58676
500	1	1	idx_point	best	fixed	0.017	0	58522.6666	58676
500	1	1	normal	best	rand	0.027667	0.00334448	58592.3333	58621
500	1	1	bs	best	rand	0.033	0.00780379	58592.3333	58621
500	1	1	idx_point	best	rand	0.023667	0.00111111	58592.3333	58621
500	1	1	normal	first	fixed	0.009333	0	58719.6666	59188
500	1	1	bs	first	fixed	0.012	0	58719.6666	59188
500	1	1	idx_point	first	fixed	0.008	0	58719.6666	59188
500	1	1	normal	first	rand	0.005667	0	58455.3333	58568
500	1	1	bs	first	rand	0.007	0	58455.3333	58568
500	1	1	idx_point	first	rand	0.007	0	58455.3333	58568
500	1	2	normal	best	fixed	0.015667	0	52450.6666	52666
500	1	2	bs	best	fixed	0.017	0	52450.6666	52666
500	1	2	idx_point	best	fixed	0.012333	0	52450.6666	52666
500	1	2	normal	best	rand	0.020667	0.00119904	52432.3333	52654
500	1	2	bs	best	rand	0.018333	0	52432.3333	52654
500	1	2	idx_point	best	rand	0.015333	0	52432.3333	52654
500	1	2	normal	first	fixed	0.006	0	52242	52503
500	1	2	bs	first	fixed	0.008667	0	52242	52503
500	1	2	idx_point	first	fixed	0.006	0	52242	52503
500	1	2	normal	first	rand	0.004667	0	52299.3333	52402
500	1	2	bs	first	rand	0.005	0	52299.3333	52402
500	1	2	idx_point	first	rand	0.004333	0	52299.3333	52402
500	1	3	normal	best	fixed	0.013667	0	54257.3333	54622
500	1	3	bs	best	fixed	0.013333	0	54257.3333	54622
500	1	3	idx_point	best	fixed	0.010333	0	54257.3333	54622
500	1	3	normal	best	rand	0.015	0	54246.6666	54626
500	1	3	bs	best	rand	0.019	0	54246.6666	54626

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500	1	3	idx_point	best	rand	0.014667	0	54246.6666	54626
500	1	3	normal	first	fixed	0.006	0	54309.6666	54414
500	1	3	bs	first	fixed	0.006667	0	54309.6666	54414
500	1	3	idx_point	first	fixed	0.005	0	54309.6666	54414
500	1	3	normal	first	rand	0.004	0	54187.6666	54346
500	1	3	bs	first	rand	0.004	0	54187.6666	54346
500	1	3	idx_point	first	rand	0.004	0	54187.6666	54346
500	1	4	normal	best	fixed	0.012667	0	58403	58651
500	1	4	bs	best	fixed	0.014667	0	58403	58651
500	1	4	idx_point	best	fixed	0.013667	0	58403	58651
500	1	4	normal	best	rand	0.017	0	58267.6666	58287
500	1	4	bs	best	rand	0.019	0	58267.6666	58287
500	1	4	idx_point	best	rand	0.015667	0	58267.6666	58287
500	1	4	normal	first	fixed	0.007333	0	58397.6666	58775
500	1	4	bs	first	fixed	0.008667	0	58397.6666	58775
500	1	4	idx_point	first	fixed	0.006	0	58397.6666	58775
500	1	4	normal	first	rand	0.004333	0	58581	58982
500	1	4	bs	first	rand	0.004667	0	58581	58982
500	1	4	idx_point	first	rand	0.004333	0	58581	58982
500	1	5	normal	best	fixed	0.012333	0	58391.3333	58536
500	1	5	bs	best	fixed	0.014	0	58391.3333	58536
500	1	5	idx_point	best	fixed	0.010667	0	58391.3333	58536
500	1	5	normal	best	rand	0.016	0	58344.6666	58465
500	1	5	bs	best	rand	0.021	0	58344.6666	58465
500	1	5	idx_point	best	rand	0.014667	0	58344.6666	58465
500	1	5	normal	first	fixed	0.006333	0	58310.6666	58477
500	1	5	bs	first	fixed	0.007	0	58310.6666	58477
500	1	5	idx_point	first	fixed	0.005333	0	58310.6666	58477
500	1	5	normal	first	rand	0.004	0	57964	58173
500	1	5	bs	first	rand	0.004333	0	57964	58173

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500	1	5	idx_point	first	rand	0.004333	0	57964	58173
500	10	1	normal	best	fixed	0.084667	0	419569.333	421619
500	10	1	bs	best	fixed	0.087333	0	419569.333	421619
500	10	1	idx_point	best	fixed	0.068667	0	419569.333	421619
500	10	1	normal	best	rand	0.086333	0	419135.333	421144
500	10	1	bs	best	rand	0.090667	0	419135.333	421144
500	10	1	idx_point	best	rand	0.083333	0	419135.333	421144
500	10	1	normal	first	fixed	0.071667	0	421893.666	423516
500	10	1	bs	first	fixed	0.073	0	421893.666	423516
500	10	1	idx_point	first	fixed	0.060667	0	421893.666	423516
500	10	1	normal	first	rand	0.017333	0	421479.333	422416
500	10	1	bs	first	rand	0.019	0	421479.333	422416
500	10	1	idx_point	first	rand	0.021	0	421479.333	422416
500	10	2	normal	best	fixed	0.089667	0	422705.666	424663
500	10	2	bs	best	fixed	0.089667	0	422705.666	424663
500	10	2	idx_point	best	fixed	0.072333	0	422705.666	424663
500	10	2	normal	best	rand	0.096333	0	422822.333	424658
500	10	2	bs	best	rand	0.098333	0	422822.333	424658
500	10	2	idx_point	best	rand	0.081	0	422822.333	424658
500	10	2	normal	first	fixed	0.070667	0	424407.666	425669
500	10	2	bs	first	fixed	0.072	0	424407.666	425669
500	10	2	idx_point	first	fixed	0.060667	0	424407.666	425669
500	10	2	normal	first	rand	0.018	0	424214	424973
500	10	2	bs	first	rand	0.022667	0	424214	424973
500	10	2	idx_point	first	rand	0.022	0	424214	424973
500	10	3	normal	best	fixed	0.084333	0	422587	423666
500	10	3	bs	best	fixed	0.088	0	422587	423666
500	10	3	idx_point	best	fixed	0.069667	0	422587	423666
500	10	3	normal	best	rand	0.089667	0	422037.666	424370
500	10	3	bs	best	rand	0.094667	0	422037.666	424370

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500	10	3	idx_point	best	rand	0.077667	0	422037.666	424370
500	10	3	normal	first	fixed	0.072667	0	424018	425392
500	10	3	bs	first	fixed	0.072333	0	424018	425392
500	10	3	idx_point	first	fixed	0.06	0	424018	425392
500	10	3	normal	first	rand	0.015667	0	423019.333	424536
500	10	3	bs	first	rand	0.018333	0	423019.333	424536
500	10	3	idx_point	first	rand	0.018667	0	423019.333	424536
500	10	4	normal	best	fixed	0.087333	0	422203.666	423240
500	10	4	bs	best	fixed	0.087333	0	422203.666	423240
500	10	4	idx_point	best	fixed	0.070667	0	422203.666	423240
500	10	4	normal	best	rand	0.099333	0	423602.333	424391
500	10	4	bs	best	rand	0.101	0	423602.333	424391
500	10	4	idx_point	best	rand	0.085	0	423602.333	424391
500	10	4	normal	first	fixed	0.07	0	423896.666	424243
500	10	4	bs	first	fixed	0.073	0	423896.666	424243
500	10	4	idx_point	first	fixed	0.058667	0	423896.666	424243
500	10	4	normal	first	rand	0.018	0	423840	424720
500	10	4	bs	first	rand	0.019	0	423840	424720
500	10	4	idx_point	first	rand	0.019667	0	423840	424720
500	10	5	normal	best	fixed	0.085	0	421621.333	422329
500	10	5	bs	best	fixed	0.089	0	421621.333	422329
500	10	5	idx_point	best	fixed	0.070333	0	421621.333	422329
500	10	5	normal	best	rand	0.094667	0.00106326	422623	423746
500	10	5	bs	best	rand	0.099667	0	422623	423746
500	10	5	idx_point	best	rand	0.082	0	422623	423746
500	10	5	normal	first	fixed	0.073667	0	423587	423636
500	10	5	bs	first	fixed	0.073333	0	423587	423636
500	10	5	idx_point	first	fixed	0.062333	0	423587	423636
500	10	5	normal	first	rand	0.017	0	422394.333	423985
500	10	5	bs	first	rand	0.019333	0	422394.333	423985

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500	10	5	idx_point	first	rand	0.018333	0	422394.333	423985
500	50	1	normal	best	fixed	0.461	0.010478	1732156	1733544
500	50	1	bs	best	fixed	0.411333	0.00848166	1732156	1733544
500	50	1	idx_point	best	fixed	0.427	0.050435	1732156	1733544
500	50	1	normal	best	rand	0.485333	0.00957984	1732203	1734184
500	50	1	bs	best	rand	0.44	0.0183093	1732203	1734184
500	50	1	idx_point	best	rand	0.448	0.0565968	1732203	1734184
500	50	1	normal	first	fixed	0.665	0.0004	1733348.66	1736617
500	50	1	bs	first	fixed	0.611	0.000394626	1733348.66	1736617
500	50	1	idx_point	first	fixed	0.649	0.00330555	1733348.66	1736617
500	50	1	normal	first	rand	0.136667	0	1733443.66	1737001
500	50	1	bs	first	rand	0.140333	0	1733443.66	1737001
500	50	1	idx_point	first	rand	0.202333	0.0023463	1733443.66	1737001
500	50	2	normal	best	fixed	0.465	0.0156064	1730968.66	1731578
500	50	2	bs	best	fixed	0.412	0.00976724	1730968.66	1731578
500	50	2	idx_point	best	fixed	0.442	0.0738283	1730968.66	1731578
500	50	2	normal	best	rand	0.504333	0.015029	1732176	1734354
500	50	2	bs	best	rand	0.457667	0.0183912	1732176	1734354
500	50	2	idx_point	best	rand	0.465667	0.0625312	1732176	1734354
500	50	2	normal	first	fixed	0.692667	0.000512286	1732254.66	1732820
500	50	2	bs	first	fixed	0.629667	0.000382663	1732254.66	1732820
500	50	2	idx_point	first	fixed	0.696667	0.00439526	1732254.66	1732820
500	50	2	normal	first	rand	0.141	0	1730599.33	1733725
500	50	2	bs	first	rand	0.142	0	1730599.33	1733725
500	50	2	idx_point	first	rand	0.204333	0.00106285	1730599.33	1733725
500	50	3	normal	best	fixed	0.482667	0.0282197	1724574.66	1726327
500	50	3	bs	best	fixed	0.43	0.0176613	1724574.66	1726327
500	50	3	idx_point	best	fixed	0.440667	0.0528571	1724574.66	1726327
500	50	3	normal	best	rand	0.494333	0.0163341	1724311.66	1726363
500	50	3	bs	best	rand	0.442	0.0167712	1724311.66	1726363

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500	50	3	idx_point	best	rand	0.455667	0.0663247	1724311.66	1726363
500	50	3	normal	first	fixed	0.673	0.000380342	1728468.66	1729944
500	50	3	bs	first	fixed	0.633	0.00136807	1728468.66	1729944
500	50	3	idx_point	first	fixed	0.666	0.00434583	1728468.66	1729944
500	50	3	normal	first	rand	0.138333	0	1724007.33	1726357
500	50	3	bs	first	rand	0.137667	0	1724007.33	1726357
500	50	3	idx_point	first	rand	0.200333	0.00353896	1724007.33	1726357
500	50	4	normal	best	fixed	0.488	0.0173247	1731241.66	1732187
500	50	4	bs	best	fixed	0.432	0.00872502	1731241.66	1732187
500	50	4	idx_point	best	fixed	0.443	0.0535122	1731241.66	1732187
500	50	4	normal	best	rand	0.499	0.0173771	1732186	1734039
500	50	4	bs	best	rand	0.459333	0.03365	1732186	1734039
500	50	4	idx_point	best	rand	0.467667	0.0667101	1732186	1734039
500	50	4	normal	first	fixed	0.685333	0.000609098	1734753.66	1737696
500	50	4	bs	first	fixed	0.622	0.00023245	1734753.66	1737696
500	50	4	idx_point	first	fixed	0.675333	0.00506249	1734753.66	1737696
500	50	4	normal	first	rand	0.135333	0	1728854.66	1729850
500	50	4	bs	first	rand	0.137	0	1728854.66	1729850
500	50	4	idx_point	first	rand	0.206	0.00238735	1728854.66	1729850
500	50	5	normal	best	fixed	0.480333	0.0168699	1736608.33	1738172
500	50	5	bs	best	fixed	0.428333	0.0155024	1736608.33	1738172
500	50	5	idx_point	best	fixed	0.449667	0.0630261	1736608.33	1738172
500	50	5	normal	best	rand	0.481333	0.0147879	1736625.33	1738147
500	50	5	bs	best	rand	0.440667	0.0293284	1736625.33	1738147
500	50	5	idx_point	best	rand	0.447	0.0574697	1736625.33	1738147
500	50	5	normal	first	fixed	0.659	0	1739334.66	1740029
500	50	5	bs	first	fixed	0.597667	0.00026763	1739334.66	1740029
500	50	5	idx_point	first	fixed	0.657667	0.0054947	1739334.66	1740029
500	50	5	normal	first	rand	0.133667	0	1736234.33	1738397
500	50	5	bs	first	rand	0.144	0	1736234.33	1738397

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500	50	5	idx_point	first	rand	0.201333	0.00323494	1736234.33	1738397
500	100	1	normal	best	fixed	1.110667	1.0829	2311311	2312622
500	100	1	bs	best	fixed	0.960333	0.640938	2311311	2312622
500	100	1	idx_point	best	fixed	1.177333	0.933428	2311311	2312622
500	100	1	normal	best	rand	1.113333	1.08515	2311952.66	2313104
500	100	1	bs	best	rand	0.974	0.656849	2311952.66	2313104
500	100	1	idx_point	best	rand	1.209	0.957752	2311952.66	2313104
500	100	1	normal	first	fixed	1.916	0.134744	2311090.66	2312084
500	100	1	bs	first	fixed	1.608333	0.0877959	2311090.66	2312084
500	100	1	idx_point	first	fixed	2.084667	0.246744	2311090.66	2312084
500	100	1	normal	first	rand	0.476333	0.0419471	2313023.33	2315173
500	100	1	bs	first	rand	0.424	0.0316874	2313023.33	2315173
500	100	1	idx_point	first	rand	0.750667	0.236725	2313023.33	2315173
500	100	2	normal	best	fixed	1.141667	1.08405	2301763.33	2307758
500	100	2	bs	best	fixed	0.994333	0.644529	2301763.33	2307758
500	100	2	idx_point	best	fixed	1.239333	0.963817	2301763.33	2307758
500	100	2	normal	best	rand	1.102667	1.09863	2301195.33	2305638
500	100	2	bs	best	rand	0.958667	0.669787	2301195.33	2305638
500	100	2	idx_point	best	rand	1.203333	0.995514	2301195.33	2305638
500	100	2	normal	first	fixed	2.004667	0.119923	2304348.66	2306682
500	100	2	bs	first	fixed	1.712333	0.0856443	2304348.66	2306682
500	100	2	idx_point	first	fixed	2.163667	0.22512	2304348.66	2306682
500	100	2	normal	first	rand	0.505	0.0367785	2305158.33	2305980
500	100	2	bs	first	rand	0.456	0.0374938	2305158.33	2305980
500	100	2	idx_point	first	rand	0.784667	0.22894	2305158.33	2305980
500	100	3	normal	best	fixed	1.087333	1.06883	2306758.66	2308304
500	100	3	bs	best	fixed	0.946667	0.641172	2306758.66	2308304
500	100	3	idx_point	best	fixed	1.173667	0.930314	2306758.66	2308304
500	100	3	normal	best	rand	1.099	1.10028	2307943	2308222
500	100	3	bs	best	rand	0.954333	0.651117	2307943	2308222

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500	100	3	idx_point	best	rand	1.186667	0.980771	2307943	2308222
500	100	3	normal	first	fixed	2.095	0.131047	2312272.66	2315758
500	100	3	bs	first	fixed	1.766	0.0869898	2312272.66	2315758
500	100	3	idx_point	first	fixed	2.299	0.246173	2312272.66	2315758
500	100	3	normal	first	rand	0.510667	0.0405412	2314090.33	2316391
500	100	3	bs	first	rand	0.450333	0.0337374	2314090.33	2316391
500	100	3	idx_point	first	rand	0.791333	0.235225	2314090.33	2316391
500	100	4	normal	best	fixed	1.130667	1.07351	2311009.33	2312437
500	100	4	bs	best	fixed	0.967667	0.582603	2311009.33	2312437
500	100	4	idx_point	best	fixed	1.192	0.888762	2311009.33	2312437
500	100	4	normal	best	rand	1.098667	1.07901	2308701	2310944
500	100	4	bs	best	rand	0.946333	0.612063	2308701	2310944
500	100	4	idx_point	best	rand	1.162667	0.921061	2308701	2310944
500	100	4	normal	first	fixed	2.139667	0.14142	2314007.66	2315553
500	100	4	bs	first	fixed	1.754	0.0862011	2314007.66	2315553
500	100	4	idx_point	first	fixed	2.254667	0.233015	2314007.66	2315553
500	100	4	normal	first	rand	0.477667	0.0349937	2311700.66	2313777
500	100	4	bs	first	rand	0.441	0.0351153	2311700.66	2313777
500	100	4	idx_point	first	rand	0.759333	0.225664	2311700.66	2313777
500	100	5	normal	best	fixed	1.102	1.06474	2317116	2319669
500	100	5	bs	best	fixed	0.968	0.628017	2317116	2319669
500	100	5	idx_point	best	fixed	1.164667	0.896574	2317116	2319669
500	100	5	normal	best	rand	1.153667	1.07957	2317140.66	2317984
500	100	5	bs	best	rand	0.994	0.619174	2317140.66	2317984
500	100	5	idx_point	best	rand	1.216	0.898474	2317140.66	2317984
500	100	5	normal	first	fixed	1.976333	0.121418	2321618.33	2323084
500	100	5	bs	first	fixed	1.664667	0.0826288	2321618.33	2323084
500	100	5	idx_point	first	fixed	2.118	0.224939	2321618.33	2323084
500	100	5	normal	first	rand	0.455667	0.04109	2318309.66	2319187
500	100	5	bs	first	rand	0.418	0.0363523	2318309.66	2319187

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500	100	5	idx_point	first	rand	0.727	0.237323	2318309.66	2319187
1000	1	1	normal	best	fixed	0.094333	0	207628	208326
1000	1	1	bs	best	fixed	0.111	0	207628	208326
1000	1	1	idx_point	best	fixed	0.080333	0	207628	208326
1000	1	1	normal	best	rand	0.115333	0	207734.333	208888
1000	1	1	bs	best	rand	0.133333	0	207734.333	208888
1000	1	1	idx_point	best	rand	0.101667	0	207734.333	208888
1000	1	1	normal	first	fixed	0.055667	0	208849	209419
1000	1	1	bs	first	fixed	0.065	0	208849	209419
1000	1	1	idx_point	first	fixed	0.049	0	208849	209419
1000	1	1	normal	first	rand	0.025667	0	208556	208871
1000	1	1	bs	first	rand	0.028333	0	208556	208871
1000	1	1	idx_point	first	rand	0.025667	0	208556	208871
1000	1	2	normal	best	fixed	0.093	0	204442	204939
1000	1	2	bs	best	fixed	0.103667	0	204442	204939
1000	1	2	idx_point	best	fixed	0.081333	0	204442	204939
1000	1	2	normal	best	rand	0.110667	0	204514.333	204941
1000	1	2	bs	best	rand	0.127333	0	204514.333	204941
1000	1	2	idx_point	best	rand	0.100333	0	204514.333	204941
1000	1	2	normal	first	fixed	0.051667	0	204368.333	205107
1000	1	2	bs	first	fixed	0.060667	0	204368.333	205107
1000	1	2	idx_point	first	fixed	0.047667	0	204368.333	205107
1000	1	2	normal	first	rand	0.025333	0	204119.333	204694
1000	1	2	bs	first	rand	0.028	0	204119.333	204694
1000	1	2	idx_point	first	rand	0.025	0	204119.333	204694
1000	1	3	normal	best	fixed	0.089667	0	202618	203342
1000	1	3	bs	best	fixed	0.106333	0	202618	203342
1000	1	3	idx_point	best	fixed	0.077667	0	202618	203342
1000	1	3	normal	best	rand	0.108667	0	202571	202900
1000	1	3	bs	best	rand	0.123667	0	202571	202900

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1000	1	3	idx_point	best	rand	0.101667	0	202571	202900
1000	1	3	normal	first	fixed	0.051333	0	202969.333	203040
1000	1	3	bs	first	fixed	0.058333	0	202969.333	203040
1000	1	3	idx_point	first	fixed	0.046333	0	202969.333	203040
1000	1	3	normal	first	rand	0.025667	0	202303	202560
1000	1	3	bs	first	rand	0.028	0	202303	202560
1000	1	3	idx_point	first	rand	0.025	0	202303	202560
1000	1	4	normal	best	fixed	0.092	0	210856	211574
1000	1	4	bs	best	fixed	0.108333	0	210856	211574
1000	1	4	idx_point	best	fixed	0.078	0	210856	211574
1000	1	4	normal	best	rand	0.112	0.000445633	210776	211392
1000	1	4	bs	best	rand	0.126667	0.000442674	210776	211392
1000	1	4	idx_point	best	rand	0.099667	0	210776	211392
1000	1	4	normal	first	fixed	0.052333	0	211083.333	211412
1000	1	4	bs	first	fixed	0.058667	0	211083.333	211412
1000	1	4	idx_point	first	fixed	0.043667	0	211083.333	211412
1000	1	4	normal	first	rand	0.027667	0	211173.666	211263
1000	1	4	bs	first	rand	0.026333	0	211173.666	211263
1000	1	4	idx_point	first	rand	0.027333	0	211173.666	211263
1000	1	5	normal	best	fixed	0.091333	0	208607.666	209155
1000	1	5	bs	best	fixed	0.108333	0	208607.666	209155
1000	1	5	idx_point	best	fixed	0.079333	0	208607.666	209155
1000	1	5	normal	best	rand	0.116	0	208732.333	209239
1000	1	5	bs	best	rand	0.127667	0	208732.333	209239
1000	1	5	idx_point	best	rand	0.100333	0.000442674	208732.333	209239
1000	1	5	normal	first	fixed	0.053333	0	210235	210525
1000	1	5	bs	first	fixed	0.062	0.00029036	210235	210525
1000	1	5	idx_point	first	fixed	0.047333	0	210235	210525
1000	1	5	normal	first	rand	0.025667	0	209258	209427
1000	1	5	bs	first	rand	0.028667	0	209258	209427

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1000	1	5	idx_point	first	rand	0.027333	0	209258	209427
1000	10	1	normal	best	fixed	0.651	0.000526596	1561844	1562490
1000	10	1	bs	best	fixed	0.628333	0.00231715	1561844	1562490
1000	10	1	idx_point	best	fixed	0.541	0.00749661	1561844	1562490
1000	10	1	normal	best	rand	0.711333	0.00124276	1564107.33	1564906
1000	10	1	bs	best	rand	0.700667	0.00302153	1564107.33	1564906
1000	10	1	idx_point	best	rand	0.598667	0.00401272	1564107.33	1564906
1000	10	1	normal	first	fixed	0.656333	0.000191131	1566545.33	1567501
1000	10	1	bs	first	fixed	0.627	0	1566545.33	1567501
1000	10	1	idx_point	first	fixed	0.561667	0.000184108	1566545.33	1567501
1000	10	1	normal	first	rand	0.098667	0	1564970	1566666
1000	10	1	bs	first	rand	0.104	0.000154107	1564970	1566666
1000	10	1	idx_point	first	rand	0.125333	0	1564970	1566666
1000	10	2	normal	best	fixed	0.667333	0.00104052	1578166	1580235
1000	10	2	bs	best	fixed	0.638	0.00363248	1578166	1580235
1000	10	2	idx_point	best	fixed	0.556333	0.00694462	1578166	1580235
1000	10	2	normal	best	rand	0.712667	0.0104058	1579543	1582109
1000	10	2	bs	best	rand	0.692667	0.00461149	1579543	1582109
1000	10	2	idx_point	best	rand	0.594	0.00662417	1579543	1582109
1000	10	2	normal	first	fixed	0.661667	0	1585592.66	1586555
1000	10	2	bs	first	fixed	0.645333	0.000189179	1585592.66	1586555
1000	10	2	idx_point	first	fixed	0.576	0.000191078	1585592.66	1586555
1000	10	2	normal	first	rand	0.094667	0	1581554	1584074
1000	10	2	bs	first	rand	0.106	0	1581554	1584074
1000	10	2	idx_point	first	rand	0.125667	0	1581554	1584074
1000	10	3	normal	best	fixed	0.683667	0.0132333	1577098.33	1579013
1000	10	3	bs	best	fixed	0.649333	0.00222979	1577098.33	1579013
1000	10	3	idx_point	best	fixed	0.557667	0.00497119	1577098.33	1579013
1000	10	3	normal	best	rand	0.721667	0.00223964	1577525.33	1578706
1000	10	3	bs	best	rand	0.695333	0.00719943	1577525.33	1578706

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1000	10	3	idx_point	best	rand	0.6	0.00632501	1577525.33	1578706
1000	10	3	normal	first	fixed	0.680333	0.000177683	1579782	1580459
1000	10	3	bs	first	fixed	0.658667	8.88E-05	1579782	1580459
1000	10	3	idx_point	first	fixed	0.598	0.000190313	1579782	1580459
1000	10	3	normal	first	rand	0.095667	0	1580256	1581534
1000	10	3	bs	first	rand	0.104333	0	1580256	1581534
1000	10	3	idx_point	first	rand	0.126	0.000155545	1580256	1581534
1000	10	4	normal	best	fixed	0.657667	0.00179591	1573781.33	1575920
1000	10	4	bs	best	fixed	0.637333	0.00338985	1573781.33	1575920
1000	10	4	idx_point	best	fixed	0.562667	0.0141054	1573781.33	1575920
1000	10	4	normal	best	rand	0.687667	0.00242164	1573139	1576568
1000	10	4	bs	best	rand	0.676	0.00299034	1573139	1576568
1000	10	4	idx_point	best	rand	0.596	0.0102947	1573139	1576568
1000	10	4	normal	first	fixed	0.655333	9.36E-05	1579884	1581068
1000	10	4	bs	first	fixed	0.642667	0.000187108	1579884	1581068
1000	10	4	idx_point	first	fixed	0.568333	0	1579884	1581068
1000	10	4	normal	first	rand	0.094667	0	1577665.66	1578725
1000	10	4	bs	first	rand	0.104667	0	1577665.66	1578725
1000	10	4	idx_point	first	rand	0.126333	0	1577665.66	1578725
1000	10	5	normal	best	fixed	0.645333	0.00186214	1567999.33	1569793
1000	10	5	bs	best	fixed	0.622	0.0024074	1567999.33	1569793
1000	10	5	idx_point	best	fixed	0.537667	0.00692134	1567999.33	1569793
1000	10	5	normal	best	rand	0.692667	0.00270664	1567896.33	1570588
1000	10	5	bs	best	rand	0.683	0.00943757	1567896.33	1570588
1000	10	5	idx_point	best	rand	0.586667	0.00876113	1567896.33	1570588
1000	10	5	normal	first	fixed	0.676667	0.000455489	1573953.33	1576887
1000	10	5	bs	first	fixed	0.650333	9.08E-05	1573953.33	1576887
1000	10	5	idx_point	first	fixed	0.574	9.08E-05	1573953.33	1576887
1000	10	5	normal	first	rand	0.097333	0	1571121.66	1572920
1000	10	5	bs	first	rand	0.109333	0.000160643	1571121.66	1572920

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1000	10	5	idx_point	first	rand	0.126667	0	1571121.66	1572920
1000	50	1	normal	best	fixed	4.391	2.16662	6628102	6629113
1000	50	1	bs	best	fixed	4.455667	2.20855	6628102	6629113
1000	50	1	idx_point	best	fixed	4.830333	2.19967	6628102	6629113
1000	50	1	normal	best	rand	4.225333	2.1978	6620687.66	6625028
1000	50	1	bs	best	rand	4.232	2.21881	6620687.66	6625028
1000	50	1	idx_point	best	rand	4.617667	2.24807	6620687.66	6625028
1000	50	1	normal	first	fixed	7.442667	0.479701	6636672	6646011
1000	50	1	bs	first	fixed	6.764333	0.402006	6636672	6646011
1000	50	1	idx_point	first	fixed	8.137667	0.591681	6636672	6646011
1000	50	1	normal	first	rand	1.139667	0.0524296	6628541.33	6632255
1000	50	1	bs	first	rand	1.092333	0.0604956	6628541.33	6632255
1000	50	1	idx_point	first	rand	1.839333	0.316427	6628541.33	6632255
1000	50	2	normal	best	fixed	4.060667	2.19233	6627398.66	6632788
1000	50	2	bs	best	fixed	4.084667	2.22329	6627398.66	6632788
1000	50	2	idx_point	best	fixed	4.507667	2.27901	6627398.66	6632788
1000	50	2	normal	best	rand	4.314	2.20917	6627842	6637825
1000	50	2	bs	best	rand	4.315	2.22665	6627842	6637825
1000	50	2	idx_point	best	rand	4.728333	2.2783	6627842	6637825
1000	50	2	normal	first	fixed	7.283333	0.488	6644980	6649128
1000	50	2	bs	first	fixed	6.610667	0.405555	6644980	6649128
1000	50	2	idx_point	first	fixed	8.012667	0.602853	6644980	6649128
1000	50	2	normal	first	rand	1.225333	0.054804	6636551.66	6638323
1000	50	2	bs	first	rand	1.160667	0.0604378	6636551.66	6638323
1000	50	2	idx_point	first	rand	1.964333	0.315638	6636551.66	6638323
1000	50	3	normal	best	fixed	4.243	2.16454	6634248.33	6634974
1000	50	3	bs	best	fixed	4.424	2.23891	6634248.33	6634974
1000	50	3	idx_point	best	fixed	4.567333	2.13842	6634248.33	6634974
1000	50	3	normal	best	rand	4.208333	2.17986	6634185	6636208
1000	50	3	bs	best	rand	4.246667	2.20493	6634185	6636208

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1000	50	3	idx_point	best	rand	4.542333	2.18886	6634185	6636208
1000	50	3	normal	first	fixed	7.205333	0.482928	6637558.66	6642428
1000	50	3	bs	first	fixed	6.486667	0.403527	6637558.66	6642428
1000	50	3	idx_point	first	fixed	7.656333	0.571572	6637558.66	6642428
1000	50	3	normal	first	rand	1.163	0.0555068	6633977	6640210
1000	50	3	bs	first	rand	1.095	0.0604176	6633977	6640210
1000	50	3	idx_point	first	rand	1.879667	0.308817	6633977	6640210
1000	50	4	normal	best	fixed	122.30333	78.2821	6628370.33	6635570
1000	50	4	bs	best	fixed	4.47	2.30512	6628370.33	6635570
1000	50	4	idx_point	best	fixed	4.502	2.20914	6628370.33	6635570
1000	50	4	normal	best	rand	4.154	2.17106	6627538	6630842
1000	50	4	bs	best	rand	4.195667	2.18734	6627538	6630842
1000	50	4	idx_point	best	rand	4.471333	2.24202	6627538	6630842
1000	50	4	normal	first	fixed	7.583	0.50426	6639405.66	6642473
1000	50	4	bs	first	fixed	7.187	0.464645	6639405.66	6642473
1000	50	4	idx_point	first	fixed	8.114	0.603493	6639405.66	6642473
1000	50	4	normal	first	rand	1.191	0.0531238	6636582.33	6641734
1000	50	4	bs	first	rand	1.148	0.0614417	6636582.33	6641734
1000	50	4	idx_point	first	rand	1.977	0.318379	6636582.33	6641734
1000	50	5	normal	best	fixed	4.324	2.13246	6613025.66	6616581
1000	50	5	bs	best	fixed	4.384667	2.15636	6613025.66	6616581
1000	50	5	idx_point	best	fixed	4.705	2.19531	6613025.66	6616581
1000	50	5	normal	best	rand	4.393333	2.14078	6611905	6616436
1000	50	5	bs	best	rand	4.456	2.16841	6611905	6616436
1000	50	5	idx_point	best	rand	4.74	2.20674	6611905	6616436
1000	50	5	normal	first	fixed	7.563333	0.496842	6618826.66	6620568
1000	50	5	bs	first	fixed	6.780333	0.414064	6618826.66	6620568
1000	50	5	idx_point	first	fixed	8.029667	0.581244	6618826.66	6620568
1000	50	5	normal	first	rand	1.143	0.0533097	6612701.66	6616367
1000	50	5	bs	first	rand	1.104667	0.0630978	6612701.66	6616367

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1000	50	5	idx_point	first	rand	1.908	0.332491	6612701.66	6616367
1000	100	1	normal	best	fixed	10.444667	5.27149	8956315.33	8958934
1000	100	1	bs	best	fixed	10.129	5.1386	8956315.33	8958934
1000	100	1	idx_point	best	fixed	11.766667	5.98839	8956315.33	8958934
1000	100	1	normal	best	rand	10.091667	5.34404	8953884	8959825
1000	100	1	bs	best	rand	9.590667	5.08353	8953884	8959825
1000	100	1	idx_point	best	rand	11.125	5.92849	8953884	8959825
1000	100	1	normal	first	fixed	24.214	1.91187	8967047	8968455
1000	100	1	bs	first	fixed	20.701333	1.55007	8967047	8968455
1000	100	1	idx_point	first	fixed	26.565333	2.1482	8967047	8968455
1000	100	1	normal	first	rand	4.674333	0.812686	8958865	8967292
1000	100	1	bs	first	rand	3.919	0.659704	8958865	8967292
1000	100	1	idx_point	first	rand	7.537333	1.74244	8958865	8967292
1000	100	2	normal	best	fixed	10.17	5.08478	8960655	8963776
1000	100	2	bs	best	fixed	9.956333	4.9963	8960655	8963776
1000	100	2	idx_point	best	fixed	11.311333	5.70045	8960655	8963776
1000	100	2	normal	best	rand	10.389667	5.11537	8960882.33	8964880
1000	100	2	bs	best	rand	10.111333	4.99324	8960882.33	8964880
1000	100	2	idx_point	best	rand	11.48	5.69411	8960882.33	8964880
1000	100	2	normal	first	fixed	23.112333	1.80827	8970933.66	8975345
1000	100	2	bs	first	fixed	20.362667	1.52356	8970933.66	8975345
1000	100	2	idx_point	first	fixed	25.268	2.02373	8970933.66	8975345
1000	100	2	normal	first	rand	4.602	0.798242	8962609.66	8969712
1000	100	2	bs	first	rand	3.963333	0.662213	8962609.66	8969712
1000	100	2	idx_point	first	rand	7.36	1.68754	8962609.66	8969712
1000	100	3	normal	best	fixed	9.887667	5.12714	8953697.66	8957359
1000	100	3	bs	best	fixed	9.645667	5.01525	8953697.66	8957359
1000	100	3	idx_point	best	fixed	11.053667	5.78834	8953697.66	8957359
1000	100	3	normal	best	rand	9.929	5.20017	8950363.66	8957043
1000	100	3	bs	best	rand	10.259667	5.40459	8950363.66	8957043

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1000	100	3	idx_point	best	rand	11.070667	5.8648	8950363.66	8957043
1000	100	3	normal	first	fixed	23.231333	1.82977	8957461.33	8960306
1000	100	3	bs	first	fixed	20.714333	1.56894	8957461.33	8960306
1000	100	3	idx_point	first	fixed	25.194333	2.02859	8957461.33	8960306
1000	100	3	normal	first	rand	4.472	0.769255	8955022	8959754
1000	100	3	bs	first	rand	3.783667	0.642882	8955022	8959754
1000	100	3	idx_point	first	rand	7.145667	1.66289	8955022	8959754
1000	100	4	normal	best	fixed	9.948333	5.03532	8959844.33	8962776
1000	100	4	bs	best	fixed	9.711	4.9745	8959844.33	8962776
1000	100	4	idx_point	best	fixed	10.924	5.60225	8959844.33	8962776
1000	100	4	normal	best	rand	10.040667	5.11367	8963366.33	8966000
1000	100	4	bs	best	rand	9.718667	5.00123	8963366.33	8966000
1000	100	4	idx_point	best	rand	11.135333	5.73792	8963366.33	8966000
1000	100	4	normal	first	fixed	23.712667	1.8254	8972688.33	8976727
1000	100	4	bs	first	fixed	20.641667	1.51772	8972688.33	8976727
1000	100	4	idx_point	first	fixed	25.699333	2.02251	8972688.33	8976727
1000	100	4	normal	first	rand	4.362333	0.807131	8961206.33	8966139
1000	100	4	bs	first	rand	3.716333	0.674489	8961206.33	8966139
1000	100	4	idx_point	first	rand	7.110667	1.7514	8961206.33	8966139
1000	100	5	normal	best	fixed	10.008333	5.05843	8971117.66	8971772
1000	100	5	bs	best	fixed	9.714333	4.95717	8971117.66	8971772
1000	100	5	idx_point	best	fixed	11.046	5.65323	8971117.66	8971772
1000	100	5	normal	best	rand	9.967333	5.1166	8971597.33	8975315
1000	100	5	bs	best	rand	9.613333	4.98295	8971597.33	8975315
1000	100	5	idx_point	best	rand	10.988667	5.70017	8971597.33	8975315
1000	100	5	normal	first	fixed	22.276333	1.78674	8983879	8985575
1000	100	5	bs	first	fixed	19.580333	1.50521	8983879	8985575
1000	100	5	idx_point	first	fixed	24.459667	2.01299	8983879	8985575
1000	100	5	normal	first	rand	4.376667	0.783815	8974094.33	8980519
1000	100	5	bs	first	rand	3.715333	0.652492	8974094.33	8980519

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1000	100	5	idx_point	first	rand	7.018333	1.68468	8974094.33	8980519
2000	1	1	normal	best	fixed	0.639	0.000541238	764662.333	765560
2000	1	1	bs	best	fixed	0.715	0.00253515	764662.333	765560
2000	1	1	idx_point	best	fixed	0.53	0.000543922	764662.333	765560
2000	1	1	normal	best	rand	0.733667	0.00290574	763912.333	765035
2000	1	1	bs	best	rand	0.824667	0.00344193	763912.333	765035
2000	1	1	idx_point	best	rand	0.632667	0.00145543	763912.333	765035
2000	1	1	normal	first	fixed	0.405333	0	767672.333	768718
2000	1	1	bs	first	fixed	0.455	0	767672.333	768718
2000	1	1	idx_point	first	fixed	0.335333	0	767672.333	768718
2000	1	1	normal	first	rand	0.134667	0	765325.666	766116
2000	1	1	bs	first	rand	0.138	0	765325.666	766116
2000	1	1	idx_point	first	rand	0.137	0	765325.666	766116
2000	1	2	normal	best	fixed	0.630333	0.00109392	767552.333	768696
2000	1	2	bs	best	fixed	0.708	0.00200807	767552.333	768696
2000	1	2	idx_point	best	fixed	0.524667	0.00018315	767552.333	768696
2000	1	2	normal	best	rand	0.741	0.00286958	768319.666	770009
2000	1	2	bs	best	rand	0.836	0.00323427	768319.666	770009
2000	1	2	idx_point	best	rand	0.638	0.00233834	768319.666	770009
2000	1	2	normal	first	fixed	0.424	0	770502	771716
2000	1	2	bs	first	fixed	0.476	0	770502	771716
2000	1	2	idx_point	first	fixed	0.349667	0	770502	771716
2000	1	2	normal	first	rand	0.130333	0	768997	769361
2000	1	2	bs	first	rand	0.133	0	768997	769361
2000	1	2	idx_point	first	rand	0.133333	0	768997	769361
2000	1	3	normal	best	fixed	0.626	0.000720613	745963	748152
2000	1	3	bs	best	fixed	0.704	0.00271658	745963	748152
2000	1	3	idx_point	best	fixed	0.525	0.00128704	745963	748152
2000	1	3	normal	best	rand	0.718667	0.00257096	744890.333	747961
2000	1	3	bs	best	rand	0.812667	0.00329639	744890.333	747961

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2000	1	3	idx_point	best	rand	0.620667	0.00238666	744890.333	747961
2000	1	3	normal	first	fixed	0.402333	0	747341.666	749185
2000	1	3	bs	first	fixed	0.452667	0	747341.666	749185
2000	1	3	idx_point	first	fixed	0.333333	0	747341.666	749185
2000	1	3	normal	first	rand	0.132333	0	747046	747586
2000	1	3	bs	first	rand	0.133667	0	747046	747586
2000	1	3	idx_point	first	rand	0.134333	0	747046	747586
2000	1	4	normal	best	fixed	0.655	0.00155484	768529.666	769476
2000	1	4	bs	best	fixed	0.731667	0.00297514	768529.666	769476
2000	1	4	idx_point	best	fixed	0.544667	0.000694472	768529.666	769476
2000	1	4	normal	best	rand	0.757333	0.00298391	767901.333	769651
2000	1	4	bs	best	rand	0.851667	0.00333304	767901.333	769651
2000	1	4	idx_point	best	rand	0.649	0.00193428	767901.333	769651
2000	1	4	normal	first	fixed	0.404667	0	769842.666	770818
2000	1	4	bs	first	fixed	0.453333	0.000107388	769842.666	770818
2000	1	4	idx_point	first	fixed	0.335667	0	769842.666	770818
2000	1	4	normal	first	rand	0.131667	0	768835.666	769507
2000	1	4	bs	first	rand	0.136	0	768835.666	769507
2000	1	4	idx_point	first	rand	0.134667	0	768835.666	769507
2000	1	5	normal	best	fixed	0.632	0.000908243	763575.333	764778
2000	1	5	bs	best	fixed	0.708	0.00290479	763575.333	764778
2000	1	5	idx_point	best	fixed	0.525	0	763575.333	764778
2000	1	5	normal	best	rand	0.746	0.00283858	764052.666	765275
2000	1	5	bs	best	rand	0.844333	0.00354712	764052.666	765275
2000	1	5	idx_point	best	rand	0.646	0.00177892	764052.666	765275
2000	1	5	normal	first	fixed	0.407667	0.000407872	767685.666	768659
2000	1	5	bs	first	fixed	0.467	0.000205952	767685.666	768659
2000	1	5	idx_point	first	fixed	0.336333	0	767685.666	768659
2000	1	5	normal	first	rand	0.131667	0	767312.666	768487
2000	1	5	bs	first	rand	0.134667	0	767312.666	768487

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2000	1	5	idx_point	first	rand	0.134667	0	767312.666	768487
2000	10	1	normal	best	fixed	5.798	1.20385	5928650	5929871
2000	10	1	bs	best	fixed	5.880333	1.25063	5928650	5929871
2000	10	1	idx_point	best	fixed	5.755	1.32932	5928650	5929871
2000	10	1	normal	best	rand	6.349	1.36185	5932563.33	5937670
2000	10	1	bs	best	rand	6.615333	1.59853	5932563.33	5937670
2000	10	1	idx_point	best	rand	6.383667	1.42019	5932563.33	5937670
2000	10	1	normal	first	fixed	6.785	0.235064	5941268.33	5944822
2000	10	1	bs	first	fixed	6.398	0.202388	5941268.33	5944822
2000	10	1	idx_point	first	fixed	6.607667	0.213244	5941268.33	5944822
2000	10	1	normal	first	rand	0.614667	0.000723568	5932074	5933311
2000	10	1	bs	first	rand	0.665333	0.000987246	5932074	5933311
2000	10	1	idx_point	first	rand	0.947333	0.00289656	5932074	5933311
2000	10	2	normal	best	fixed	5.928667	1.24561	5953591.33	5953990
2000	10	2	bs	best	fixed	6.062333	1.33969	5953591.33	5953990
2000	10	2	idx_point	best	fixed	5.876333	1.34977	5953591.33	5953990
2000	10	2	normal	best	rand	6.403	1.36149	5956075.66	5963496
2000	10	2	bs	best	rand	6.699333	1.64646	5956075.66	5963496
2000	10	2	idx_point	best	rand	6.447333	1.41564	5956075.66	5963496
2000	10	2	normal	first	fixed	6.683333	0.242571	5965642.33	5979245
2000	10	2	bs	first	fixed	6.334	0.212975	5965642.33	5979245
2000	10	2	idx_point	first	fixed	6.519333	0.22627	5965642.33	5979245
2000	10	2	normal	first	rand	0.651667	0.000907336	5959935.33	5964030
2000	10	2	bs	first	rand	0.707	0.00090526	5959935.33	5964030
2000	10	2	idx_point	first	rand	0.994333	0.00348854	5959935.33	5964030
2000	10	3	normal	best	fixed	6.032333	1.20786	5897750.66	5898327
2000	10	3	bs	best	fixed	6.195667	1.30471	5897750.66	5898327
2000	10	3	idx_point	best	fixed	5.945	1.31696	5897750.66	5898327
2000	10	3	normal	best	rand	6.228333	1.34223	5900984	5903924
2000	10	3	bs	best	rand	6.509667	1.58729	5900984	5903924

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2000	10	3	idx_point	best	rand	6.253667	1.40293	5900984	5903924
2000	10	3	normal	first	fixed	6.853333	0.24723	5912921.66	5915180
2000	10	3	bs	first	fixed	6.474333	0.213444	5912921.66	5915180
2000	10	3	idx_point	first	fixed	6.655333	0.228609	5912921.66	5915180
2000	10	3	normal	first	rand	0.623	0.000455719	5901666	5906062
2000	10	3	bs	first	rand	0.669333	0.000583406	5901666	5906062
2000	10	3	idx_point	first	rand	0.953333	0.00240585	5901666	5906062
2000	10	4	normal	best	fixed	5.818667	1.23622	5949696	5952262
2000	10	4	bs	best	fixed	5.989333	1.34931	5949696	5952262
2000	10	4	idx_point	best	fixed	5.758	1.342	5949696	5952262
2000	10	4	normal	best	rand	5.915333	1.37276	5946468	5954721
2000	10	4	bs	best	rand	6.165333	1.61234	5946468	5954721
2000	10	4	idx_point	best	rand	5.943333	1.4175	5946468	5954721
2000	10	4	normal	first	fixed	6.941667	0.250421	5962247.33	5966508
2000	10	4	bs	first	fixed	6.562667	0.217497	5962247.33	5966508
2000	10	4	idx_point	first	fixed	6.723	0.22756	5962247.33	5966508
2000	10	4	normal	first	rand	0.622333	0.000859231	5955977	5959427
2000	10	4	bs	first	rand	0.664667	0.000992706	5955977	5959427
2000	10	4	idx_point	first	rand	0.937	0.00311533	5955977	5959427
2000	10	5	normal	best	fixed	5.853667	1.25054	5935903.33	5940193
2000	10	5	bs	best	fixed	5.968667	1.32136	5935903.33	5940193
2000	10	5	idx_point	best	fixed	5.797	1.35112	5935903.33	5940193
2000	10	5	normal	best	rand	6.106333	1.38406	5936404	5938926
2000	10	5	bs	best	rand	6.340667	1.60383	5936404	5938926
2000	10	5	idx_point	best	rand	6.152333	1.43489	5936404	5938926
2000	10	5	normal	first	fixed	7.068333	0.249738	5950501.33	5956302
2000	10	5	bs	first	fixed	6.663667	0.214196	5950501.33	5956302
2000	10	5	idx_point	first	fixed	6.905333	0.231295	5950501.33	5956302
2000	10	5	normal	first	rand	0.639333	0.000379192	5943267	5944920
2000	10	5	bs	first	rand	0.683	0.000508636	5943267	5944920

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2000	10	5	idx_point	first	rand	0.965333	0.00280329	5943267	5944920
2000	50	1	normal	best	fixed	36.272	9.19864	25672409	2568086
2000	50	1	bs	best	fixed	34.658333	8.84998	25672409	2568086
2000	50	1	idx_point	best	fixed	38.36	9.72919	25672409	2568086
2000	50	1	normal	best	rand	38.582667	9.40838	25676982.6	2568447
2000	50	1	bs	best	rand	36.817333	9.02442	25676982.6	2568447
2000	50	1	idx_point	best	rand	40.261	9.8143	25676982.6	2568447
2000	50	1	normal	first	fixed	78.812667	3.21277	25702680.6	2570568
2000	50	1	bs	first	fixed	72.146667	2.89078	25702680.6	2570568
2000	50	1	idx_point	first	fixed	84.017333	3.45611	25702680.6	2570568
2000	50	1	normal	first	rand	9.856	0.897797	25679883	2569903
2000	50	1	bs	first	rand	8.535333	0.724466	25679883	2569903
2000	50	1	idx_point	first	rand	19.225	2.33118	25679883	2569903
2000	50	2	normal	best	fixed	35.131667	9.19949	25672463.3	2567600
2000	50	2	bs	best	fixed	34.172333	9.01815	25672463.3	2567600
2000	50	2	idx_point	best	fixed	37.313	9.76839	25672463.3	2567600
2000	50	2	normal	best	rand	37.630667	9.35342	25684342.6	2568965
2000	50	2	bs	best	rand	36.570667	9.09391	25684342.6	2568965
2000	50	2	idx_point	best	rand	39.808333	9.89146	25684342.6	2568965
2000	50	2	normal	first	fixed	79.562	3.21811	25717105	2572298
2000	50	2	bs	first	fixed	73.474	2.92667	25717105	2572298
2000	50	2	idx_point	first	fixed	84.540667	3.44941	25717105	2572298
2000	50	2	normal	first	rand	9.769	0.855104	25692255	2570560
2000	50	2	bs	first	rand	8.466	0.692762	25692255	2570560
2000	50	2	idx_point	first	rand	19.008	2.25059	25692255	2570560
2000	50	3	normal	best	fixed	36.626	9.13961	25705024.6	2571420
2000	50	3	bs	best	fixed	35.858333	9.01201	25705024.6	2571420
2000	50	3	idx_point	best	fixed	38.348667	9.56915	25705024.6	2571420
2000	50	3	normal	best	rand	38.582333	9.29879	25704087	2570854
2000	50	3	bs	best	rand	37.429	9.03915	25704087	2570854

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2000	50	3	idx_point	best	rand	40.119667	9.66335	25704087	2570854
2000	50	3	normal	first	fixed	76.246667	3.18644	25718831.6	2572481
2000	50	3	bs	first	fixed	70.284667	2.89508	25718831.6	2572481
2000	50	3	idx_point	first	fixed	81.494	3.44247	25718831.6	2572481
2000	50	3	normal	first	rand	9.741333	0.846849	25704290	2571313
2000	50	3	bs	first	rand	8.406667	0.673593	25704290	2571313
2000	50	3	idx_point	first	rand	18.734	2.1948	25704290	2571313
2000	50	4	normal	best	fixed	36.248333	9.20587	25679707	2569784
2000	50	4	bs	best	fixed	35.105333	8.99113	25679707	2569784
2000	50	4	idx_point	best	fixed	38.496	9.78125	25679707	2569784
2000	50	4	normal	best	rand	37.719333	9.35448	25680830.6	2568623
2000	50	4	bs	best	rand	36.523667	9.07119	25680830.6	2568623
2000	50	4	idx_point	best	rand	39.758667	9.85747	25680830.6	2568623
2000	50	4	normal	first	fixed	77.827	3.24442	25693650.6	2569980
2000	50	4	bs	first	fixed	71.869333	2.9532	25693650.6	2569980
2000	50	4	idx_point	first	fixed	84.542333	3.56879	25693650.6	2569980
2000	50	4	normal	first	rand	9.515333	0.881874	25679547	2568891
2000	50	4	bs	first	rand	8.240667	0.709595	25679547	2568891
2000	50	4	idx_point	first	rand	18.75	2.32944	25679547	2568891
2000	50	5	normal	best	fixed	35.275333	9.20225	25691102.3	2569623
2000	50	5	bs	best	fixed	34.439333	9.04772	25691102.3	2569623
2000	50	5	idx_point	best	fixed	37.628667	9.8206	25691102.3	2569623
2000	50	5	normal	best	rand	37.258667	9.33297	25694225	2569700
2000	50	5	bs	best	rand	36.321667	9.10734	25694225	2569700
2000	50	5	idx_point	best	rand	39.210333	9.81282	25694225	2569700
2000	50	5	normal	first	fixed	80.32	3.22303	25733678.6	2573851
2000	50	5	bs	first	fixed	74.271667	2.93635	25733678.6	2573851
2000	50	5	idx_point	first	fixed	85.524333	3.45978	25733678.6	2573851
2000	50	5	normal	first	rand	9.79	0.877999	25703384.6	2571366
2000	50	5	bs	first	rand	8.515667	0.711056	25703384.6	2571366

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2000	50	5	idx_point	first	rand	19.257667	2.31605	25703384.6	2571366
2000	100	1	normal	best	fixed	85.766333	20.9257	34957454.6	3496245
2000	100	1	bs	best	fixed	75.201	18.2746	34957454.6	3496245
2000	100	1	idx_point	best	fixed	100.616	24.6204	34957454.6	3496245
2000	100	1	normal	best	rand	83.770667	21.4598	34961922.6	3496922
2000	100	1	bs	best	rand	73.423333	18.7613	34961922.6	3496922
2000	100	1	idx_point	best	rand	100.04266	25.7233	34961922.6	3496922
2000	100	1	normal	first	fixed	238.35766	8.06588	35000958	3500572
2000	100	1	bs	first	fixed	191.676	6.38733	35000958	3500572
2000	100	1	idx_point	first	fixed	265.823	9.05073	35000958	3500572
2000	100	1	normal	first	rand	38.939	4.18186	34982595.3	3499434
2000	100	1	bs	first	rand	28.854	2.9502	34982595.3	3499434
2000	100	1	idx_point	first	rand	72.851	8.24811	34982595.3	3499434
2000	100	2	normal	best	fixed	87.059333	21.1727	34972739.6	3498382
2000	100	2	bs	best	fixed	76.361333	18.5034	34972739.6	3498382
2000	100	2	idx_point	best	fixed	103.24066	25.1822	34972739.6	3498382
2000	100	2	normal	best	rand	89.824333	21.1909	34963443.3	3496683
2000	100	2	bs	best	rand	78.697333	18.5217	34963443.3	3496683
2000	100	2	idx_point	best	rand	105.01066	24.8417	34963443.3	3496683
2000	100	2	normal	first	fixed	242.659	8.07844	34996444	3500279
2000	100	2	bs	first	fixed	194.71533	6.3854	34996444	3500279
2000	100	2	idx_point	first	fixed	266.52866	8.92298	34996444	3500279
2000	100	2	normal	first	rand	37.433	4.22403	34972542.6	3497672
2000	100	2	bs	first	rand	27.994	3.00747	34972542.6	3497672
2000	100	2	idx_point	first	rand	71.735	8.54745	34972542.6	3497672
2000	100	3	normal	best	fixed	86.037667	20.9661	34944219	3495426
2000	100	3	bs	best	fixed	75.638333	18.3469	34944219	3495426
2000	100	3	idx_point	best	fixed	102.784	25.1191	34944219	3495426
2000	100	3	normal	best	rand	87.438667	21.3919	34949505	3495207
2000	100	3	bs	best	rand	76.652667	18.7106	34949505	3495207

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2000	100	3	idx_point	best	rand	103.49633	25.4081	34949505	3495207
2000	100	3	normal	first	fixed	238.86133	8.08995	34977091.3	3498035
2000	100	3	bs	first	fixed	192.44533	6.41919	34977091.3	3498035
2000	100	3	idx_point	first	fixed	267.31633	9.10933	34977091.3	3498035
2000	100	3	normal	first	rand	37.043	4.19963	34961289.6	3496681
2000	100	3	bs	first	rand	27.779667	3.00193	34961289.6	3496681
2000	100	3	idx_point	first	rand	70.954667	8.49977	34961289.6	3496681
2000	100	4	normal	best	fixed	83.892667	20.9588	34901913	3491413
2000	100	4	bs	best	fixed	73.849333	18.3745	34901913	3491413
2000	100	4	idx_point	best	fixed	99.958333	25.0466	34901913	3491413
2000	100	4	normal	best	rand	85.875667	21.3081	34898292.3	3490990
2000	100	4	bs	best	rand	75.316333	18.6433	34898292.3	3490990
2000	100	4	idx_point	best	rand	101.13333	25.1764	34898292.3	3490990
2000	100	4	normal	first	fixed	240.328	8.05271	34931234	3494113
2000	100	4	bs	first	fixed	192.874	6.36468	34931234	3494113
2000	100	4	idx_point	first	fixed	265.75633	8.9557	34931234	3494113
2000	100	4	normal	first	rand	37.001333	4.12532	34911737.3	3491813
2000	100	4	bs	first	rand	27.912333	2.96087	34911737.3	3491813
2000	100	4	idx_point	first	rand	70.769667	8.34127	34911737.3	3491813
2000	100	5	normal	best	fixed	86.046333	20.9177	34905883.3	3491479
2000	100	5	bs	best	fixed	75.455667	18.2658	34905883.3	3491479
2000	100	5	idx_point	best	fixed	101.69233	24.7902	34905883.3	3491479
2000	100	5	normal	best	rand	86.659	21.3526	34912989.3	3492863
2000	100	5	bs	best	rand	75.929333	18.6655	34912989.3	3492863
2000	100	5	idx_point	best	rand	102.51233	25.3427	34912989.3	3492863
2000	100	5	normal	first	fixed	238.23833	8.04297	34951573.3	3496018
2000	100	5	bs	first	fixed	191.12033	6.35383	34951573.3	3496018
2000	100	5	idx_point	first	fixed	262.75866	8.92298	34951573.3	3496018
2000	100	5	normal	first	rand	36.429	4.32356	34909843	3491439
2000	100	5	bs	first	rand	27.337	3.09723	34909843	3491439

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2000	100	5	idx_point	first	rand	69.871667	8.74331	34909843	3491439
3000	1	1	normal	best	fixed	1.970333	0.0068849	1633488.33	1634419
3000	1	1	bs	best	fixed	2.153667	0.0100184	1633488.33	1634419
3000	1	1	idx_point	best	fixed	1.611333	0.00403704	1633488.33	1634419
3000	1	1	normal	best	rand	2.244667	0.00917573	1634117.33	1635669
3000	1	1	bs	best	rand	2.492667	0.0189981	1634117.33	1635669
3000	1	1	idx_point	best	rand	1.913	0.00518672	1634117.33	1635669
3000	1	1	normal	first	fixed	1.417333	0.000778414	1640503.33	1641693
3000	1	1	bs	first	fixed	1.558	0.00100017	1640503.33	1641693
3000	1	1	idx_point	first	fixed	1.156667	0.000665254	1640503.33	1641693
3000	1	1	normal	first	rand	0.338	0	1634461	1635514
3000	1	1	bs	first	rand	0.346333	0	1634461	1635514
3000	1	1	idx_point	first	rand	0.351667	0	1634461	1635514
3000	1	2	normal	best	fixed	1.961333	0.00500378	1643009.66	1643608
3000	1	2	bs	best	fixed	2.148	0.00750392	1643009.66	1643608
3000	1	2	idx_point	best	fixed	1.619	0.00455847	1643009.66	1643608
3000	1	2	normal	best	rand	2.259	0.00891385	1643650.66	1644730
3000	1	2	bs	best	rand	2.507667	0.0155875	1643650.66	1644730
3000	1	2	idx_point	best	rand	1.925667	0.00546568	1643650.66	1644730
3000	1	2	normal	first	fixed	1.415333	0.000658706	1651980	1655105
3000	1	2	bs	first	fixed	1.555667	0.000992811	1651980	1655105
3000	1	2	idx_point	first	fixed	1.152667	0.000438766	1651980	1655105
3000	1	2	normal	first	rand	0.339667	0	1643995.33	1646415
3000	1	2	bs	first	rand	0.345	0	1643995.33	1646415
3000	1	2	idx_point	first	rand	0.350667	0	1643995.33	1646415
3000	1	3	normal	best	fixed	1.958	0.00541919	1611551.66	1614520
3000	1	3	bs	best	fixed	2.150667	0.00954672	1611551.66	1614520
3000	1	3	idx_point	best	fixed	1.604	0.00408938	1611551.66	1614520
3000	1	3	normal	best	rand	2.186667	0.00869072	1610416.66	1611203
3000	1	3	bs	best	rand	2.433	0.0177919	1610416.66	1611203

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3000	1	3	idx_point	best	rand	1.863333	0.00516947	1610416.66	1611203
3000	1	3	normal	first	fixed	1.371333	0.000788588	1616029.33	1616619
3000	1	3	bs	first	fixed	1.506333	0.00107428	1616029.33	1616619
3000	1	3	idx_point	first	fixed	1.119	0.000564068	1616029.33	1616619
3000	1	3	normal	first	rand	0.338667	7.13E-05	1614875	1617374
3000	1	3	bs	first	rand	0.347	7.12E-05	1614875	1617374
3000	1	3	idx_point	first	rand	0.348333	0	1614875	1617374
3000	1	4	normal	best	fixed	1.981333	0.00583832	1639094	1640024
3000	1	4	bs	best	fixed	2.162667	0.0089654	1639094	1640024
3000	1	4	idx_point	best	fixed	1.628667	0.00399996	1639094	1640024
3000	1	4	normal	best	rand	2.282	0.0130358	1640289.66	1642547
3000	1	4	bs	best	rand	2.524667	0.0197427	1640289.66	1642547
3000	1	4	idx_point	best	rand	1.941	0.00673604	1640289.66	1642547
3000	1	4	normal	first	fixed	1.396667	0.00135808	1645978	1646096
3000	1	4	bs	first	fixed	1.525667	0.00107503	1645978	1646096
3000	1	4	idx_point	first	fixed	1.134	0.000678482	1645978	1646096
3000	1	4	normal	first	rand	0.344333	0	1642942.66	1644866
3000	1	4	bs	first	rand	0.354667	7.03E-05	1642942.66	1644866
3000	1	4	idx_point	first	rand	0.357	0	1642942.66	1644866
3000	1	5	normal	best	fixed	2.003667	0.00839323	1647011.66	1650022
3000	1	5	bs	best	fixed	2.180333	0.00751303	1647011.66	1650022
3000	1	5	idx_point	best	fixed	1.636667	0.00396799	1647011.66	1650022
3000	1	5	normal	best	rand	2.275667	0.00974448	1647724.33	1651669
3000	1	5	bs	best	rand	2.511667	0.0173631	1647724.33	1651669
3000	1	5	idx_point	best	rand	1.931667	0.00589215	1647724.33	1651669
3000	1	5	normal	first	fixed	1.437333	0.000822636	1655661.33	1657449
3000	1	5	bs	first	fixed	1.572333	0.00131892	1655661.33	1657449
3000	1	5	idx_point	first	fixed	1.172333	0.000659185	1655661.33	1657449
3000	1	5	normal	first	rand	0.341333	0	1650379.33	1652910
3000	1	5	bs	first	rand	0.350333	0	1650379.33	1652910

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3000	1	5	idx_point	first	rand	0.352667	7.29E-05	1650379.33	1652910
3000	10	1	normal	best	fixed	20.194333	3.66943	12968832	1297469
3000	10	1	bs	best	fixed	21.803667	4.09061	12968832	1297469
3000	10	1	idx_point	best	fixed	20.278333	3.66618	12968832	1297469
3000	10	1	normal	best	rand	21.075667	4.04478	12975275.3	1298372
3000	10	1	bs	best	rand	23.161333	4.21879	12975275.3	1298372
3000	10	1	idx_point	best	rand	21.457333	3.8652	12975275.3	1298372
3000	10	1	normal	first	fixed	27.597333	0.993167	12997678.3	1300466
3000	10	1	bs	first	fixed	28.229333	1.02843	12997678.3	1300466
3000	10	1	idx_point	first	fixed	29.264333	1.08375	12997678.3	1300466
3000	10	1	normal	first	rand	1.942667	0.00339912	12977450.3	1298238
3000	10	1	bs	first	rand	2.055333	0.0038827	12977450.3	1298238
3000	10	1	idx_point	first	rand	3.816	0.145991	12977450.3	1298238
3000	10	2	normal	best	fixed	20.364667	3.79582	13011021	1301440
3000	10	2	bs	best	fixed	22.01	4.10011	13011021	1301440
3000	10	2	idx_point	best	fixed	20.436333	3.69589	13011021	1301440
3000	10	2	normal	best	rand	20.761667	4.05308	13008017.3	1301472
3000	10	2	bs	best	rand	22.796333	4.22888	13008017.3	1301472
3000	10	2	idx_point	best	rand	21.089667	3.87692	13008017.3	1301472
3000	10	2	normal	first	fixed	27.630667	1.0136	13036152.3	1303767
3000	10	2	bs	first	fixed	28.307333	1.0526	13036152.3	1303767
3000	10	2	idx_point	first	fixed	29.117333	1.0946	13036152.3	1303767
3000	10	2	normal	first	rand	1.973667	0.00254135	13022957	1302776
3000	10	2	bs	first	rand	2.075	0.00331556	13022957	1302776
3000	10	2	idx_point	first	rand	3.854333	0.147182	13022957	1302776
3000	10	3	normal	best	fixed	20.388667	3.7471	12953465.6	1295500
3000	10	3	bs	best	fixed	22.320667	4.13283	12953465.6	1295500
3000	10	3	idx_point	best	fixed	20.827	3.75258	12953465.6	1295500
3000	10	3	normal	best	rand	21.825667	4.06122	12957421.6	1296126
3000	10	3	bs	best	rand	23.8	4.21343	12957421.6	1296126

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3000	10	3	idx_point	best	rand	22.018333	3.85137	12957421.6	1296126
3000	10	3	normal	first	fixed	27.088333	1.00162	12973305	1297528
3000	10	3	bs	first	fixed	27.738667	1.03976	12973305	1297528
3000	10	3	idx_point	first	fixed	28.857667	1.09799	12973305	1297528
3000	10	3	normal	first	rand	1.920333	0.00329859	12955347.6	1296069
3000	10	3	bs	first	rand	2.027	0.003629	12955347.6	1296069
3000	10	3	idx_point	first	rand	3.753	0.144751	12955347.6	1296069
3000	10	4	normal	best	fixed	20.111333	3.70251	13014374.3	1301956
3000	10	4	bs	best	fixed	21.692	4.08292	13014374.3	1301956
3000	10	4	idx_point	best	fixed	20.110667	3.65741	13014374.3	1301956
3000	10	4	normal	best	rand	21.537667	4.04307	13015193.6	1302167
3000	10	4	bs	best	rand	23.659333	4.20739	13015193.6	1302167
3000	10	4	idx_point	best	rand	21.720667	3.81486	13015193.6	1302167
3000	10	4	normal	first	fixed	27.373333	1.00469	13036406	1303823
3000	10	4	bs	first	fixed	28.101	1.04304	13036406	1303823
3000	10	4	idx_point	first	fixed	29.099	1.09814	13036406	1303823
3000	10	4	normal	first	rand	1.977333	0.0019688	13024399.3	1303215
3000	10	4	bs	first	rand	2.082333	0.00260288	13024399.3	1303215
3000	10	4	idx_point	first	rand	3.911	0.14719	13024399.3	1303215
3000	10	5	normal	best	fixed	20.643	3.76991	13023584.6	1302877
3000	10	5	bs	best	fixed	22.34	4.10033	13023584.6	1302877
3000	10	5	idx_point	best	fixed	20.701333	3.68392	13023584.6	1302877
3000	10	5	normal	best	rand	20.957667	4.05221	13014087	1301600
3000	10	5	bs	best	rand	22.969	4.22388	13014087	1301600
3000	10	5	idx_point	best	rand	21.219667	3.86045	13014087	1301600
3000	10	5	normal	first	fixed	27.532667	1.01157	13043380.3	1304913
3000	10	5	bs	first	fixed	28.150333	1.04676	13043380.3	1304913
3000	10	5	idx_point	first	fixed	29.546	1.12254	13043380.3	1304913
3000	10	5	normal	first	rand	2.003333	0.00291665	13029732	1303214
3000	10	5	bs	first	rand	2.103667	0.00372042	13029732	1303214

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3000	10	5	idx_point	first	rand	3.879	0.146295	13029732	1303214
3000	50	1	normal	best	fixed	134.24233	20.7311	56821756.3	5683881
3000	50	1	bs	best	fixed	123.17533	19.011	56821756.3	5683881
3000	50	1	idx_point	best	fixed	141.748	21.9379	56821756.3	5683881
3000	50	1	normal	best	rand	134.86766	21.3054	56817934.3	5681937
3000	50	1	bs	best	rand	124.99733	19.6861	56817934.3	5681937
3000	50	1	idx_point	best	rand	144.139	22.7952	56817934.3	5681937

Array Implementation Analysis - LS Time[s]

[illegible]

Array Implementation Analysis - LS Time Relative

[illegible]

Array Implementation Analysis - Notes

For strategy best, the order of vertices doesn't matter. For first strategy the rand order gives better time.

Estratégia first fixed demora muito mais do que first rand para grafos densos.

First rand demora muito menos que best rand.

Conclusão:

Será utilizada a implementação bs, com as estratégias best rand e first rand para futuras comparações. É preciso comparar a qualidade das duas estratégias.