Table 1: Experimental Results (with artic-v1)

| Input Size | | Completeness | | Ties | | Sex-equal | Egalitarian | Min. Regret | Max. Cardinality | No Opt. |
|---|---|---|---|---|---|---|---|---|---|---|
| Men | Women | Men | Women | Men | Women | | | | | |
| 20 | 20 | 25 % | 25 % | 0 % | 0 % | 0.520 sec | 0.030 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 25 % | 0 % | 10 % | 1.600 sec | 0.070 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 25 % | 0 % | 20 % | 0.920 sec | 0.050 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 25 % | 10 % | 10 % | 0.640 sec | 0.040 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 25 % | 10 % | 20 % | 1.200 sec | 0.060 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 25 % | 20 % | 20 % | 1.170 sec | 0.050 sec | 0.000 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 0 % | 0 % | 3.160 sec | 0.110 sec | 0.010 sec | 0.010 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 0 % | 10 % | 4.090 sec | 0.160 sec | 0.010 sec | 0.010 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 0 % | 20 % | 3.180 sec | 0.120 sec | 0.020 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 10 % | 10 % | 2.380 sec | 0.100 sec | 0.020 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 10 % | 20 % | 2.740 sec | 0.110 sec | 0.010 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 50 % | 20 % | 20 % | 4.460 sec | 0.160 sec | 0.010 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 0 % | 0 % | 13.530 sec | 0.470 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 0 % | 10 % | 14.730 sec | 0.520 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 0 % | 20 % | 17.550 sec | 0.530 sec | 0.060 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 10 % | 10 % | 9.360 sec | 0.350 sec | 0.040 sec | 0.010 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 10 % | 20 % | 16.650 sec | 0.640 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 25 % | 100 % | 20 % | 20 % | 18.370 sec | 0.640 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 0 % | 0 % | 15.170 sec | 0.480 sec | 0.040 sec | 0.000 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 0 % | 10 % | 18.830 sec | 0.600 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 0 % | 20 % | 9.820 sec | 0.330 sec | 0.040 sec | 0.010 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 10 % | 10 % | 9.370 sec | 0.310 sec | 0.030 sec | 0.010 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 10 % | 20 % | 16.750 sec | 0.530 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 50 % | 50 % | 20 % | 20 % | 24.970 sec | 0.930 sec | 0.060 sec | 0.020 sec | 0.000 sec |
| 20 | 20 | 50 % | 100 % | 0 % | 0 % | 58.620 sec | 2.030 sec | 0.150 sec | 0.040 sec | 0.000 sec |
| 20 | 20 | 50 % | 100 % | 0 % | 10 % | 71.770 sec | 2.610 sec | 0.190 sec | 0.050 sec | 0.000 sec |
| 20 | 20 | 50 % | 100 % | 0 % | 20 % | 65.890 sec | 2.200 sec | 0.170 sec | 0.050 sec | 0.000 sec |
| 20 | 20 | 50 % | 100 % | 10 % | 10 % | 67.940 sec | 2.750 sec | 0.180 sec | 0.040 sec | 0.000 sec |
| 20 | 20 | 50 % | 100 % | 10 % | 20 % | 82.680 sec | 4.200 sec | 0.190 sec | 0.050 sec | 0.010 sec |
| 20 | 20 | 50 % | 100 % | 20 % | 20 % | 93.730 sec | 6.600 sec | 0.250 sec | 0.050 sec | 0.000 sec |
| 20 | 20 | 100 % | 100 % | 0 % | 0 % | 369.640 sec | 24.670 sec | 1.110 sec | 0.220 sec | 0.000 sec |
| 20 | 20 | 100 % | 100 % | 0 % | 10 % | 386.900 sec | 21.800 sec | 1.090 sec | 0.230 sec | 0.010 sec |
| 20 | 20 | 100 % | 100 % | 0 % | 20 % | 341.700 sec | 28.170 sec | 1.010 sec | 0.220 sec | 0.010 sec |
| 20 | 20 | 100 % | 100 % | 10 % | 10 % | 414.580 sec | 25.710 sec | 1.210 sec | 0.220 sec | 0.000 sec |
| 20 | 20 | 100 % | 100 % | 10 % | 20 % | 324.570 sec | 26.660 sec | 1.110 sec | 0.240 sec | 0.000 sec |
| 20 | 20 | 100 % | 100 % | 20 % | 20 % | 304.990 sec | 17.920 sec | 1.040 sec | 0.220 sec | 0.000 sec |
| 20 | 40 | 25 % | 25 % | 0 % | 0 % | 7.670 sec | 0.240 sec | 0.010 sec | 0.010 sec | 0.010 sec |
| 20 | 40 | 25 % | 25 % | 0 % | 10 % | 10.030 sec | 0.280 sec | 0.010 sec | 0.010 sec | 0.000 sec |
| 20 | 40 | 25 % | 25 % | 0 % | 20 % | 9.830 sec | 0.300 sec | 0.020 sec | 0.010 sec | 0.000 sec |
| 20 | 40 | 25 % | 25 % | 10 % | 10 % | 15.710 sec | 0.410 sec | 0.030 sec | 0.010 sec | 0.000 sec |
| 20 | 40 | 25 % | 25 % | 10 % | 20 % | 10.130 sec | 0.300 sec | 0.010 sec | 0.010 sec | 0.000 sec |
| 20 | 40 | 25 % | 25 % | 20 % | 20 % | 9.600 sec | 0.300 sec | 0.020 sec | 0.000 sec | 0.010 sec |
| 20 | 40 | 25 % | 50 % | 0 % | 0 % | 21.200 sec | 0.580 sec | 0.030 sec | 0.020 sec | 0.010 sec |
| 20 | 40 | 25 % | 50 % | 0 % | 10 % | 36.460 sec | 0.940 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 20 | 40 | 25 % | 50 % | 0 % | 20 % | 40.070 sec | 1.040 sec | 0.050 sec | 0.030 sec | 0.000 sec |

Table 1: Experimental Results (with artic-v1)

| Input Size | | Completeness | | Ties | | Sex-equal | Egalitarian | Min. Regret | Max. Cardinality | No Opt. |
|---|---|---|---|---|---|---|---|---|---|---|
| Men | Women | Men | Women | Men | Women | | | | | |
| 20 | 40 | 25 % | 50 % | 10 % | 10 % | Missing | Missing | 0.060 sec | 0.030 sec | 0.000 sec |
| 20 | 40 | 25 % | 50 % | 10 % | 20 % | 42.790 sec | 1.120 sec | 0.060 sec | 0.030 sec | 0.010 sec |
| 20 | 40 | 25 % | 50 % | 20 % | 20 % | Missing | Missing | 0.050 sec | 0.020 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 0 % | 0 % | 118.460 sec | 3.080 sec | 0.130 sec | 0.040 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 0 % | 10 % | 182.850 sec | 6.470 sec | 0.210 sec | 0.050 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 0 % | 20 % | 170.080 sec | 4.830 sec | 0.180 sec | 0.040 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 10 % | 10 % | 155.440 sec | 4.480 sec | 0.180 sec | 0.040 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 10 % | 20 % | 152.040 sec | 4.500 sec | 0.180 sec | 0.040 sec | 0.000 sec |
| 20 | 40 | 25 % | 100 % | 20 % | 20 % | 90.280 sec | 2.340 sec | 0.120 sec | 0.040 sec | 0.000 sec |
| 20 | 40 | 50 % | 50 % | 0 % | 0 % | 109.120 sec | 2.790 sec | 0.140 sec | 0.030 sec | 0.010 sec |
| 20 | 40 | 50 % | 50 % | 0 % | 10 % | 190.090 sec | 6.380 sec | 0.200 sec | 0.040 sec | 0.010 sec |
| 20 | 40 | 50 % | 50 % | 0 % | 20 % | 137.150 sec | 4.130 sec | 0.170 sec | 0.050 sec | 0.020 sec |
| 20 | 40 | 50 % | 50 % | 10 % | 10 % | 128.000 sec | 3.550 sec | 0.180 sec | 0.050 sec | 0.000 sec |
| 20 | 40 | 50 % | 50 % | 10 % | 20 % | 177.160 sec | 5.710 sec | 0.200 sec | 0.030 sec | 0.010 sec |
| 20 | 40 | 50 % | 50 % | 20 % | 20 % | 144.340 sec | 4.500 sec | 0.140 sec | 0.030 sec | 0.000 sec |
| 20 | 40 | 50 % | 100 % | 0 % | 0 % | 866.930 sec | 30.080 sec | 1.050 sec | 0.190 sec | 0.000 sec |
| 20 | 40 | 50 % | 100 % | 0 % | 10 % | Timeout | 38.110 sec | 0.900 sec | 0.210 sec | 0.000 sec |
| 20 | 40 | 50 % | 100 % | 0 % | 20 % | Missing | 58.130 sec | 1.070 sec | 0.200 sec | 0.000 sec |
| 20 | 40 | 50 % | 100 % | 10 % | 10 % | 942.160 sec | 30.810 sec | 0.760 sec | 0.160 sec | 0.010 sec |
| 20 | 40 | 50 % | 100 % | 10 % | 20 % | 885.770 sec | 35.300 sec | 1.020 sec | 0.150 sec | 0.000 sec |
| 20 | 40 | 50 % | 100 % | 20 % | 20 % | 577.810 sec | 16.450 sec | 0.510 sec | 0.140 sec | 0.010 sec |
| 20 | 40 | 100 % | 100 % | 0 % | 0 % | 112.610 sec | 293.770 sec | 4.200 sec | 1.030 sec | 0.020 sec |
| 20 | 40 | 100 % | 100 % | 0 % | 10 % | Missing | 260.480 sec | 3.810 sec | 1.040 sec | 0.020 sec |
| 20 | 40 | 100 % | 100 % | 0 % | 20 % | Missing | 253.970 sec | 3.980 sec | 1.030 sec | 0.010 sec |
| 20 | 40 | 100 % | 100 % | 10 % | 10 % | Missing | 198.270 sec | 4.010 sec | 1.850 sec | 0.020 sec |
| 20 | 40 | 100 % | 100 % | 10 % | 20 % | Missing | 226.570 sec | 3.700 sec | 1.540 sec | 0.020 sec |
| 20 | 40 | 100 % | 100 % | 20 % | 20 % | Missing | 453.810 sec | 8.490 sec | 1.110 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 0 % | 0 % | 31.900 sec | 0.810 sec | 0.020 sec | 0.020 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 0 % | 10 % | 21.630 sec | 0.630 sec | 0.020 sec | 0.010 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 0 % | 20 % | 21.380 sec | 0.590 sec | 0.020 sec | 0.020 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 10 % | 10 % | 55.560 sec | 0.960 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 10 % | 20 % | 26.480 sec | 0.720 sec | 0.030 sec | 0.010 sec | 0.000 sec |
| 20 | 60 | 25 % | 25 % | 20 % | 20 % | 45.310 sec | 1.100 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 20 | 60 | 25 % | 50 % | 0 % | 0 % | Missing | Missing | 0.110 sec | 0.020 sec | 0.000 sec |
| 20 | 60 | 25 % | 50 % | 0 % | 10 % | Missing | Missing | 0.080 sec | 0.030 sec | 0.000 sec |
| 20 | 60 | 25 % | 50 % | 0 % | 20 % | 79.730 sec | 2.040 sec | 0.080 sec | 0.020 sec | 0.010 sec |
| 20 | 60 | 25 % | 50 % | 10 % | 10 % | 191.610 sec | 3.700 sec | 0.120 sec | 0.040 sec | 0.010 sec |
| 20 | 60 | 25 % | 50 % | 10 % | 20 % | 230.830 sec | 4.650 sec | 0.140 sec | 0.040 sec | 0.010 sec |
| 20 | 60 | 25 % | 50 % | 20 % | 20 % | 236.000 sec | 4.820 sec | 0.140 sec | 0.030 sec | 0.010 sec |
| 20 | 60 | 25 % | 100 % | 0 % | 0 % | Missing | 44.090 sec | 0.530 sec | 0.090 sec | 0.020 sec |
| 20 | 60 | 25 % | 100 % | 0 % | 10 % | 509.390 sec | 12.660 sec | 0.290 sec | 0.080 sec | 0.010 sec |
| 20 | 60 | 25 % | 100 % | 0 % | 20 % | 643.760 sec | 43.720 sec | 0.410 sec | 0.080 sec | 0.010 sec |
| 20 | 60 | 25 % | 100 % | 10 % | 10 % | 168.250 sec | 37.930 sec | 0.500 sec | 0.100 sec | 0.010 sec |
| 20 | 60 | 25 % | 100 % | 10 % | 20 % | 705.850 sec | 39.040 sec | 0.580 sec | 0.080 sec | 0.000 sec |
| 20 | 60 | 25 % | 100 % | 20 % | 20 % | 779.900 sec | 48.670 sec | 0.640 sec | 0.100 sec | 0.000 sec |
| 20 | 60 | 50 % | 50 % | 0 % | 0 % | 156.570 sec | Missing | 0.590 sec | 0.100 sec | 0.000 sec |

Table 1: Experimental Results (with artic-v1)

| Input Size | | Completeness | | Ties | | Sex-equal | Egalitarian | Min. Regret | Max. Cardinality | No Opt. |
|---|---|---|---|---|---|---|---|---|---|---|
| Men | Women | Men | Women | Men | Women | | | | | |
| 20 | 60 | 50 % | 50 % | 0 % | 10 % | 506.950 sec | 30.410 sec | 0.500 sec | 0.080 sec | 0.000 sec |
| 20 | 60 | 50 % | 50 % | 0 % | 20 % | 661.330 sec | 23.990 sec | 0.380 sec | 0.080 sec | 0.000 sec |
| 20 | 60 | 50 % | 50 % | 10 % | 10 % | Missing | 35.400 sec | 0.460 sec | 0.080 sec | 0.020 sec |
| 20 | 60 | 50 % | 50 % | 10 % | 20 % | Missing | 32.170 sec | 0.570 sec | 0.100 sec | 0.020 sec |
| 20 | 60 | 50 % | 50 % | 20 % | 20 % | 949.500 sec | 43.970 sec | 0.670 sec | 0.090 sec | 0.010 sec |
| 20 | 60 | 50 % | 100 % | 0 % | 0 % | 71.600 sec | 360.560 sec | 2.780 sec | 0.340 sec | 0.010 sec |
| 20 | 60 | 50 % | 100 % | 0 % | 10 % | Missing | 243.350 sec | 2.360 sec | 0.290 sec | 0.020 sec |
| 20 | 60 | 50 % | 100 % | 0 % | 20 % | Missing | 772.060 sec | 2.380 sec | 0.330 sec | 0.020 sec |
| 20 | 60 | 50 % | 100 % | 10 % | 10 % | Missing | 566.200 sec | 3.380 sec | 0.400 sec | 0.020 sec |
| 20 | 60 | 50 % | 100 % | 10 % | 20 % | Missing | 283.440 sec | 2.430 sec | 0.340 sec | 0.000 sec |
| 20 | 60 | 50 % | 100 % | 20 % | 20 % | Missing | 430.920 sec | 3.210 sec | 0.430 sec | 0.020 sec |
| 20 | 60 | 100 % | 100 % | 0 % | 0 % | Missing | Timeout | 28.740 sec | 2.500 sec | 0.010 sec |
| 20 | 60 | 100 % | 100 % | 0 % | 10 % | Missing | Timeout | 26.620 sec | 2.470 sec | 0.020 sec |
| 20 | 60 | 100 % | 100 % | 0 % | 20 % | Missing | Timeout | 28.660 sec | 3.290 sec | 0.010 sec |
| 20 | 60 | 100 % | 100 % | 10 % | 10 % | Missing | Timeout | 30.610 sec | 3.440 sec | 0.010 sec |
| 20 | 60 | 100 % | 100 % | 10 % | 20 % | Missing | Timeout | 28.130 sec | 3.400 sec | 0.010 sec |
| 20 | 60 | 100 % | 100 % | 20 % | 20 % | Missing | Timeout | 23.230 sec | 2.770 sec | 0.010 sec |
| 40 | 40 | 25 % | 25 % | 0 % | 0 % | 84.580 sec | 1.640 sec | 0.040 sec | 0.020 sec | 0.000 sec |
| 40 | 40 | 25 % | 25 % | 0 % | 10 % | 96.230 sec | 1.610 sec | 0.060 sec | 0.020 sec | 0.000 sec |
| 40 | 40 | 25 % | 25 % | 0 % | 20 % | 86.500 sec | 1.530 sec | 0.030 sec | 0.020 sec | 0.010 sec |
| 40 | 40 | 25 % | 25 % | 10 % | 10 % | 109.790 sec | 1.780 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 40 | 40 | 25 % | 25 % | 10 % | 20 % | Missing | Missing | 0.050 sec | 0.020 sec | 0.000 sec |
| 40 | 40 | 25 % | 25 % | 20 % | 20 % | 90.840 sec | 1.780 sec | 0.050 sec | 0.020 sec | 0.000 sec |
| 40 | 40 | 25 % | 50 % | 0 % | 0 % | 438.430 sec | 6.160 sec | 0.180 sec | 0.040 sec | 0.000 sec |
| 40 | 40 | 25 % | 50 % | 0 % | 10 % | 418.460 sec | 6.160 sec | 0.160 sec | 0.040 sec | 0.010 sec |
| 40 | 40 | 25 % | 50 % | 0 % | 20 % | 285.620 sec | 4.380 sec | 0.110 sec | 0.040 sec | 0.000 sec |
| 40 | 40 | 25 % | 50 % | 10 % | 10 % | 515.660 sec | 10.970 sec | 0.290 sec | 0.040 sec | 0.000 sec |
| 40 | 40 | 25 % | 50 % | 10 % | 20 % | 375.640 sec | 5.350 sec | 0.170 sec | 0.040 sec | 0.000 sec |
| 40 | 40 | 25 % | 50 % | 20 % | 20 % | 311.720 sec | 6.310 sec | 0.210 sec | 0.050 sec | 0.000 sec |
| 40 | 40 | 25 % | 100 % | 0 % | 0 % | Missing | 59.440 sec | 0.820 sec | 0.150 sec | 0.020 sec |
| 40 | 40 | 25 % | 100 % | 0 % | 10 % | Missing | 75.140 sec | 1.040 sec | 0.140 sec | 0.010 sec |
| 40 | 40 | 25 % | 100 % | 0 % | 20 % | 51.400 sec | 48.450 sec | 0.800 sec | 0.140 sec | 0.010 sec |
| 40 | 40 | 25 % | 100 % | 10 % | 10 % | Missing | 57.370 sec | 0.800 sec | 0.200 sec | 0.020 sec |
| 40 | 40 | 25 % | 100 % | 10 % | 20 % | 57.360 sec | 89.350 sec | 1.100 sec | 0.150 sec | 0.010 sec |
| 40 | 40 | 25 % | 100 % | 20 % | 20 % | Missing | 91.650 sec | 1.180 sec | 0.160 sec | 0.020 sec |
| 40 | 40 | 50 % | 50 % | 0 % | 0 % | 52.990 sec | 98.840 sec | 0.890 sec | 0.160 sec | 0.010 sec |
| 40 | 40 | 50 % | 50 % | 0 % | 10 % | Missing | 92.480 sec | 1.060 sec | 0.120 sec | 0.010 sec |
| 40 | 40 | 50 % | 50 % | 0 % | 20 % | 50.560 sec | 227.890 sec | 1.190 sec | 0.130 sec | 0.000 sec |
| 40 | 40 | 50 % | 50 % | 10 % | 10 % | 31.440 sec | 104.280 sec | 1.010 sec | 0.130 sec | 0.020 sec |
| 40 | 40 | 50 % | 50 % | 10 % | 20 % | 19.900 sec | 108.200 sec | 0.900 sec | 0.120 sec | 0.020 sec |
| 40 | 40 | 50 % | 50 % | 20 % | 20 % | Missing | 40.830 sec | 0.780 sec | 0.110 sec | 0.010 sec |
| 40 | 40 | 50 % | 100 % | 0 % | 0 % | Missing | 700.210 sec | 6.010 sec | 0.630 sec | 0.010 sec |
| 40 | 40 | 50 % | 100 % | 0 % | 10 % | Missing | 834.520 sec | 8.000 sec | 0.900 sec | 0.020 sec |
| 40 | 40 | 50 % | 100 % | 0 % | 20 % | Missing | Timeout | 7.820 sec | 0.850 sec | 0.000 sec |
| 40 | 40 | 50 % | 100 % | 10 % | 10 % | Missing | 497.990 sec | 7.440 sec | 0.720 sec | 0.010 sec |
| 40 | 40 | 50 % | 100 % | 10 % | 20 % | Missing | Timeout | 6.470 sec | 0.620 sec | 0.020 sec |

Table 1: Experimental Results (with artic-v1)

| Input Size | | Completeness | | Ties | | Sex-equal | Egalitarian | Min. Regret | Max. Cardinality | No Opt. |
|---|---|---|---|---|---|---|---|---|---|---|
| Men | Women | Men | Women | Men | Women | | | | | |
| 40 | 40 | 50 % | 100 % | 20 % | 20 % | Missing | 655.140 sec | 7.280 sec | 0.750 sec | 0.010 sec |
| 40 | 40 | 100 % | 100 % | 0 % | 0 % | Missing | Timeout | 72.050 sec | 7.810 sec | 0.010 sec |
| 40 | 40 | 100 % | 100 % | 0 % | 10 % | Missing | Timeout | 70.600 sec | 7.270 sec | 0.020 sec |
| 40 | 40 | 100 % | 100 % | 0 % | 20 % | Missing | Timeout | 63.650 sec | 5.260 sec | 0.010 sec |
| 40 | 40 | 100 % | 100 % | 10 % | 10 % | Missing | Timeout | 62.850 sec | 4.900 sec | 0.020 sec |
| 40 | 40 | 100 % | 100 % | 10 % | 20 % | Missing | Timeout | 51.990 sec | 7.010 sec | 0.010 sec |
| 40 | 40 | 100 % | 100 % | 20 % | 20 % | Missing | Timeout | 46.790 sec | 4.940 sec | 0.010 sec |
| 40 | 60 | 25 % | 25 % | 0 % | 0 % | 423.930 sec | 4.890 sec | 0.130 sec | 0.030 sec | 0.000 sec |
| 40 | 60 | 25 % | 25 % | 0 % | 10 % | 234.270 sec | 3.740 sec | 0.100 sec | 0.020 sec | 0.010 sec |
| 40 | 60 | 25 % | 25 % | 0 % | 20 % | 289.940 sec | 3.690 sec | 0.080 sec | 0.040 sec | 0.010 sec |
| 40 | 60 | 25 % | 25 % | 10 % | 10 % | 467.950 sec | 5.750 sec | 0.130 sec | 0.040 sec | 0.000 sec |
| 40 | 60 | 25 % | 25 % | 10 % | 20 % | 271.220 sec | 3.570 sec | 0.080 sec | 0.040 sec | 0.010 sec |
| 40 | 60 | 25 % | 25 % | 20 % | 20 % | 307.520 sec | 3.990 sec | 0.090 sec | 0.030 sec | 0.020 sec |
| 40 | 60 | 25 % | 50 % | 0 % | 0 % | Missing | 32.240 sec | 0.450 sec | 0.070 sec | 0.020 sec |
| 40 | 60 | 25 % | 50 % | 0 % | 10 % | Missing | 23.560 sec | 0.510 sec | 0.070 sec | 0.000 sec |
| 40 | 60 | 25 % | 50 % | 0 % | 20 % | Missing | 26.780 sec | 0.420 sec | 0.080 sec | 0.000 sec |
| 40 | 60 | 25 % | 50 % | 10 % | 10 % | 51.980 sec | Missing | 0.490 sec | 0.090 sec | 0.010 sec |
| 40 | 60 | 25 % | 50 % | 10 % | 20 % | 53.230 sec | Missing | 0.430 sec | 0.070 sec | 0.010 sec |
| 40 | 60 | 25 % | 50 % | 20 % | 20 % | Missing | 19.150 sec | 0.410 sec | 0.080 sec | 0.000 sec |
| 40 | 60 | 25 % | 100 % | 0 % | 0 % | Missing | 227.740 sec | 2.070 sec | 0.270 sec | 0.010 sec |
| 40 | 60 | 25 % | 100 % | 0 % | 10 % | Missing | 247.590 sec | 2.730 sec | 0.260 sec | 0.020 sec |
| 40 | 60 | 25 % | 100 % | 0 % | 20 % | Missing | 991.290 sec | 2.580 sec | 0.250 sec | 0.010 sec |
| 40 | 60 | 25 % | 100 % | 10 % | 10 % | Missing | Timeout | 3.580 sec | 0.400 sec | 0.030 sec |
| 40 | 60 | 25 % | 100 % | 10 % | 20 % | Missing | 792.530 sec | 2.450 sec | 0.250 sec | 0.020 sec |
| 40 | 60 | 25 % | 100 % | 20 % | 20 % | Missing | 425.100 sec | 2.260 sec | 0.280 sec | 0.020 sec |
| 40 | 60 | 50 % | 50 % | 0 % | 0 % | Missing | 367.940 sec | 2.970 sec | 0.260 sec | 0.020 sec |
| 40 | 60 | 50 % | 50 % | 0 % | 10 % | Missing | 404.320 sec | 2.940 sec | 0.260 sec | 0.010 sec |
| 40 | 60 | 50 % | 50 % | 0 % | 20 % | Missing | 449.930 sec | 3.250 sec | 0.280 sec | 0.010 sec |
| 40 | 60 | 50 % | 50 % | 10 % | 10 % | Missing | 319.630 sec | 3.350 sec | 0.340 sec | 0.010 sec |
| 40 | 60 | 50 % | 50 % | 10 % | 20 % | Missing | 623.870 sec | 3.080 sec | 0.270 sec | 0.020 sec |
| 40 | 60 | 50 % | 50 % | 20 % | 20 % | Missing | 528.230 sec | 3.740 sec | 0.280 sec | 0.010 sec |
| 40 | 60 | 50 % | 100 % | 0 % | 0 % | Missing | Timeout | 33.450 sec | 2.200 sec | 0.020 sec |
| 40 | 60 | 50 % | 100 % | 0 % | 10 % | Missing | Timeout | 24.720 sec | 2.180 sec | 0.030 sec |
| 40 | 60 | 50 % | 100 % | 0 % | 20 % | Missing | Timeout | 30.740 sec | 1.780 sec | 0.020 sec |
| 40 | 60 | 50 % | 100 % | 10 % | 10 % | Missing | Timeout | 26.470 sec | 2.250 sec | 0.020 sec |
| 40 | 60 | 50 % | 100 % | 10 % | 20 % | Missing | Timeout | 37.840 sec | 2.270 sec | 0.020 sec |
| 40 | 60 | 50 % | 100 % | 20 % | 20 % | Missing | Timeout | 23.040 sec | 1.740 sec | 0.020 sec |
| 40 | 60 | 100 % | 100 % | 0 % | 0 % | Timeout | Timeout | 374.580 sec | 14.500 sec | 0.020 sec |
| 40 | 60 | 100 % | 100 % | 0 % | 10 % | Timeout | Timeout | 355.890 sec | 15.420 sec | 0.030 sec |
| 40 | 60 | 100 % | 100 % | 0 % | 20 % | Timeout | Timeout | 323.780 sec | 14.400 sec | 0.020 sec |
| 40 | 60 | 100 % | 100 % | 10 % | 10 % | Timeout | Timeout | 310.870 sec | 14.490 sec | 0.020 sec |
| 40 | 60 | 100 % | 100 % | 10 % | 20 % | Timeout | Timeout | 252.590 sec | 12.950 sec | 0.030 sec |
| 40 | 60 | 100 % | 100 % | 20 % | 20 % | Missing | Timeout | 253.300 sec | 14.500 sec | 0.030 sec |
| 60 | 60 | 25 % | 25 % | 0 % | 0 % | Missing | Missing | 0.280 sec | 0.060 sec | 0.010 sec |
| 60 | 60 | 25 % | 25 % | 0 % | 10 % | 29.220 sec | 13.990 sec | 0.200 sec | 0.040 sec | 0.000 sec |
| 60 | 60 | 25 % | 25 % | 0 % | 20 % | Missing | 14.140 sec | 0.220 sec | 0.050 sec | 0.010 sec |

Table 1: Experimental Results (with artic-v1)

| Input Size | | Completeness | | Ties | | Sex-equal | Egalitarian | Min. Regret | Max. Cardinality | No Opt. |
|---|---|---|---|---|---|---|---|---|---|---|
| Men | Women | Men | Women | Men | Women | | | | | |
| 60 | 60 | 25 % | 25 % | 10 % | 10 % | Missing | 25.800 sec | 0.360 sec | 0.060 sec | 0.000 sec |
| 60 | 60 | 25 % | 25 % | 10 % | 20 % | Missing | Missing | 0.210 sec | 0.060 sec | 0.000 sec |
| 60 | 60 | 25 % | 25 % | 20 % | 20 % | Missing | 14.600 sec | 0.220 sec | 0.050 sec | 0.000 sec |
| 60 | 60 | 25 % | 50 % | 0 % | 0 % | Missing | 444.070 sec | 1.940 sec | 0.210 sec | 0.010 sec |
| 60 | 60 | 25 % | 50 % | 0 % | 10 % | Missing | 103.170 sec | 1.070 sec | 0.120 sec | 0.020 sec |
| 60 | 60 | 25 % | 50 % | 0 % | 20 % | Missing | 161.530 sec | 1.100 sec | 0.150 sec | 0.020 sec |
| 60 | 60 | 25 % | 50 % | 10 % | 10 % | Missing | 88.510 sec | 1.200 sec | 0.160 sec | 0.010 sec |
| 60 | 60 | 25 % | 50 % | 10 % | 20 % | Missing | 197.990 sec | 1.420 sec | 0.140 sec | 0.010 sec |
| 60 | 60 | 25 % | 50 % | 20 % | 20 % | Missing | 136.290 sec | 1.010 sec | 0.130 sec | 0.020 sec |
| 60 | 60 | 25 % | 100 % | 0 % | 0 % | Missing | Timeout | 14.430 sec | 0.830 sec | 0.020 sec |
| 60 | 60 | 25 % | 100 % | 0 % | 10 % | Missing | Timeout | 10.580 sec | 0.760 sec | 0.020 sec |
| 60 | 60 | 25 % | 100 % | 0 % | 20 % | Missing | Timeout | 12.870 sec | 0.810 sec | 0.030 sec |
| 60 | 60 | 25 % | 100 % | 10 % | 10 % | Missing | Timeout | 13.110 sec | 0.910 sec | 0.030 sec |
| 60 | 60 | 25 % | 100 % | 10 % | 20 % | Missing | Timeout | 13.750 sec | 0.880 sec | 0.030 sec |
| 60 | 60 | 25 % | 100 % | 20 % | 20 % | Missing | Timeout | 11.800 sec | 0.780 sec | 0.020 sec |
| 60 | 60 | 50 % | 50 % | 0 % | 0 % | Missing | Timeout | 14.200 sec | 0.780 sec | 0.020 sec |
| 60 | 60 | 50 % | 50 % | 0 % | 10 % | Missing | Timeout | 8.960 sec | 0.670 sec | 0.020 sec |
| 60 | 60 | 50 % | 50 % | 0 % | 20 % | Missing | Timeout | 12.260 sec | 0.920 sec | 0.020 sec |
| 60 | 60 | 50 % | 50 % | 10 % | 10 % | 372.660 sec | Timeout | 13.160 sec | 0.900 sec | 0.040 sec |
| 60 | 60 | 50 % | 50 % | 10 % | 20 % | 383.900 sec | Timeout | 16.760 sec | 0.840 sec | 0.020 sec |
| 60 | 60 | 50 % | 50 % | 20 % | 20 % | 473.410 sec | Timeout | 14.530 sec | 0.730 sec | 0.020 sec |
| 60 | 60 | 50 % | 100 % | 0 % | 0 % | Timeout | Timeout | 110.280 sec | 4.420 sec | 0.030 sec |
| 60 | 60 | 50 % | 100 % | 0 % | 10 % | Missing | Timeout | 114.540 sec | 4.030 sec | 0.030 sec |
| 60 | 60 | 50 % | 100 % | 0 % | 20 % | Timeout | Timeout | 95.800 sec | 4.270 sec | 0.020 sec |
| 60 | 60 | 50 % | 100 % | 10 % | 10 % | Missing | Timeout | 91.960 sec | 4.230 sec | 0.030 sec |
| 60 | 60 | 50 % | 100 % | 10 % | 20 % | Missing | Timeout | 109.830 sec | 4.380 sec | 0.030 sec |
| 60 | 60 | 50 % | 100 % | 20 % | 20 % | Timeout | Timeout | 116.660 sec | 3.830 sec | 0.020 sec |
| 60 | 60 | 100 % | 100 % | 0 % | 0 % | Timeout | Timeout | Timeout | 36.710 sec | 0.040 sec |
| 60 | 60 | 100 % | 100 % | 0 % | 10 % | Timeout | Timeout | Timeout | 33.160 sec | 0.050 sec |
| 60 | 60 | 100 % | 100 % | 0 % | 20 % | Timeout | Timeout | Timeout | 41.880 sec | 0.040 sec |
| 60 | 60 | 100 % | 100 % | 10 % | 10 % | Timeout | Timeout | Timeout | 33.610 sec | 0.040 sec |
| 60 | 60 | 100 % | 100 % | 10 % | 20 % | Timeout | Timeout | Timeout | 32.190 sec | 0.040 sec |
| 60 | 60 | 100 % | 100 % | 20 % | 20 % | Timeout | Timeout | Timeout | 36.590 sec | 0.030 sec |