**Project 1 – Brute Force**

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1. **Introduction** (What did you do in this project and why?)

1. **Approach** (Describe algorithm you are using for this project)
2. **Results** (How well did the algorithm perform?)
   1. **Data** (Describe the data you used.)
   2. **Results** (Numerical results and any figures or tables.)

DataSet 1A:

Gen. 200000 (100.00%): Max/Min/Avg Fitness(Raw) [2269.99(2241.05)/1231.95(1282.41)/1891.66(1891.66)]

Total time elapsed: 3781.328 seconds.

List: [43, 79, 4, 13, 48, 11, 17, 86, 3, 32, 58, 63, 34, 96, 46, 98, 45, 33, 95, 64, 87, 75, 47, 1, 76, 25, 49, 77, 26, 66, 21, 51, 99, 54, 27, 62, 31, 44, 60, 18, 90, 2, 52, 22, 85, 40, 37, 70, 23, 72, 69, 15, 89, 24, 39, 12, 28, 9, 6, 88, 74, 16, 92, 10, 68, 7, 53, 50, 55, 97, 59, 5, 19, 78, 67, 84, 35, 20, 36, 65, 38, 73, 93, 82, 71, 29, 42, 0, 91, 94, 14, 80, 83, 30, 61, 41, 57, 56, 8, 81]

DataSet 2A:

Gen. 200000 (100.00%): Max/Min/Avg Fitness(Raw) [1764.44(1876.92)/1115.34(979.55)/1470.37(1470.37)]

Total time elapsed: 4405.806 seconds.

List: [43, 79, 57, 61, 34, 3, 96, 68, 46, 17, 11, 10, 15, 89, 9, 69, 98, 92, 93, 82, 35, 36, 2, 20, 65, 37, 38, 40, 85, 22, 52, 18, 90, 62, 31, 60, 33, 73, 16, 74, 72, 42, 29, 71, 84, 6, 88, 23, 70, 0, 91, 94, 14, 67, 78, 80, 19, 97, 59, 5, 39, 24, 12, 83, 30, 58, 63, 32, 28, 55, 50, 53, 7, 48, 47, 45, 54, 27, 44, 51, 99, 95, 64, 75, 49, 13, 1, 86, 76, 25, 41, 4, 56, 77, 87, 21, 66, 26, 8, 81]

DataSet 1B:

Gen. 200000 (100.00%): Max/Min/Avg Fitness(Raw) [1664.55(1608.22)/1013.45(1089.33)/1387.12(1387.12)]

Total time elapsed: 2503.694 seconds.

List: [89, 7, 53, 50, 46, 17, 11, 48, 45, 33, 54, 60, 27, 31, 62, 90, 18, 52, 22, 85, 77, 43, 79, 57, 4, 41, 49, 13, 1, 47, 87, 64, 95, 99, 51, 44, 21, 66, 26, 8, 81, 56, 61, 28, 55, 83, 30, 58, 63, 32, 3, 25, 76, 75, 86, 34, 96, 12, 24, 39, 5, 19, 94, 91, 42, 14, 78, 80, 97, 59, 67, 71, 88, 6, 74, 73, 16, 35, 36, 37, 65, 20, 2, 38, 40, 92, 98, 10, 68, 15, 69, 93, 82, 84, 23, 70, 0, 72, 29, 9]

DataSet 2B:

Gen. 200000 (100.00%): Max/Min/Avg Fitness(Raw) [1793.79(1909.93)/1469.69(1459.92)/1494.83(1494.83)]

Total time elapsed: 2363.059 seconds.

List: [66, 26, 8, 81, 77, 92, 73, 74, 6, 88, 93, 9, 68, 17, 76, 49, 13, 1, 47, 48, 10, 46, 11, 86, 75, 87, 64, 51, 99, 95, 3, 32, 63, 58, 30, 28, 55, 50, 53, 89, 69, 45, 33, 60, 54, 96, 24, 5, 39, 12, 83, 61, 41, 56, 43, 79, 57, 4, 25, 34, 78, 67, 82, 18, 27, 62, 90, 52, 2, 20, 65, 35, 42, 14, 71, 16, 22, 85, 98, 15, 7, 59, 97, 19, 80, 94, 91, 72, 29, 84, 40, 38, 37, 36, 70, 0, 23, 31, 44, 21]

1. **Discussion** (Talk about the results you got and answer any specific questions mentioned in the assignment.)
2. **References** (If you used any sources in addition to lectures please include them here.)