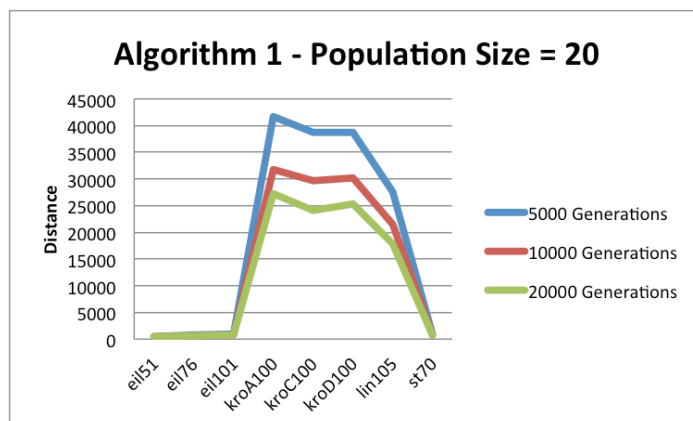
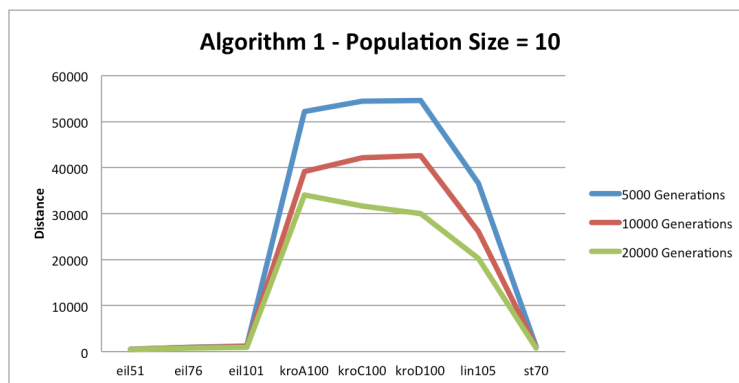


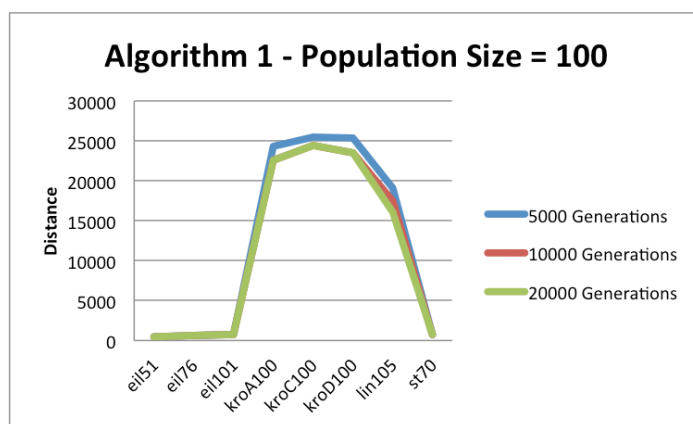
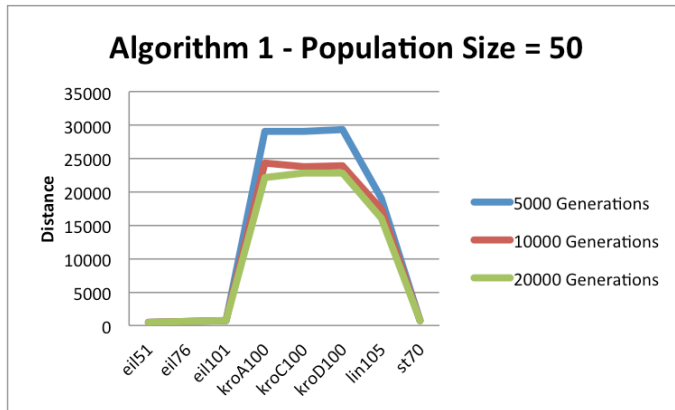
Algorithms and Benchmarking

After the implementation of the pre-test for different modules, three algorithms are considered to be in the shortlist, and the relevant details are described in the appendix. These three combinations are shown in the following table.

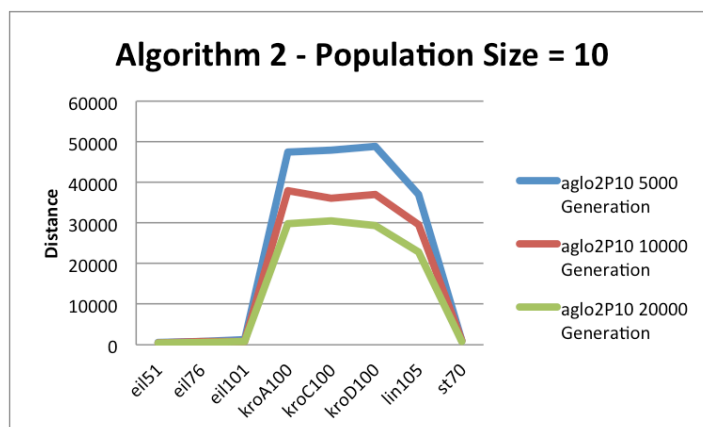
Algorithm	CrossOver (Prob)	Mutation (Prob)	Selection	Elitism
1	Edge Comb (0.5)	Inversion (0.03)	Tournament	False
2	PMX (0.5)	Inversion (0.05)	Tournament	True
3	Cycle (0.5)	Insert (0.05)	Tournament	True

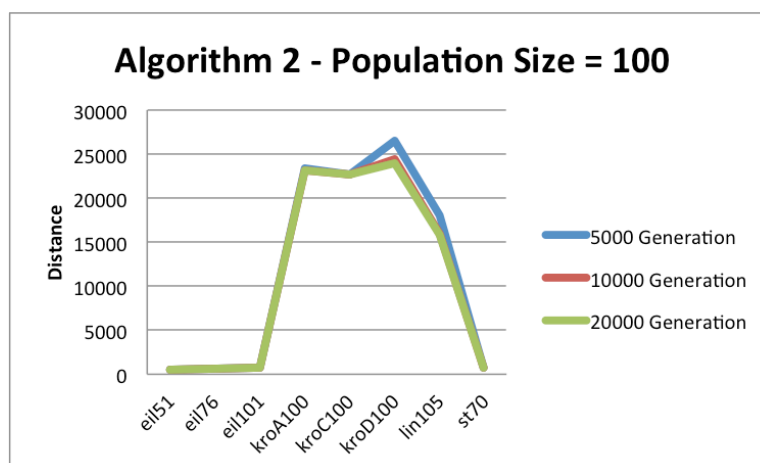
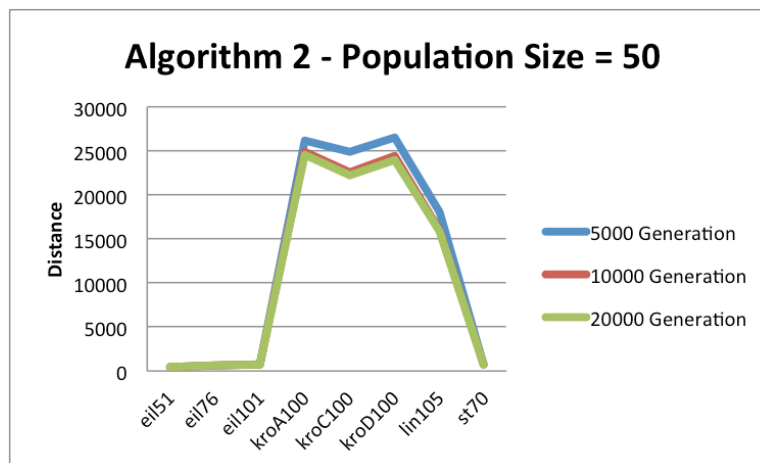
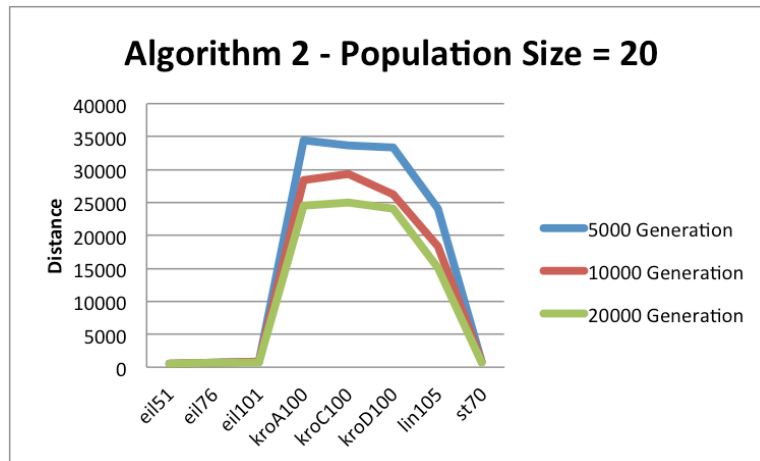
The following charts summarize the results achieved from Algorithm 1.





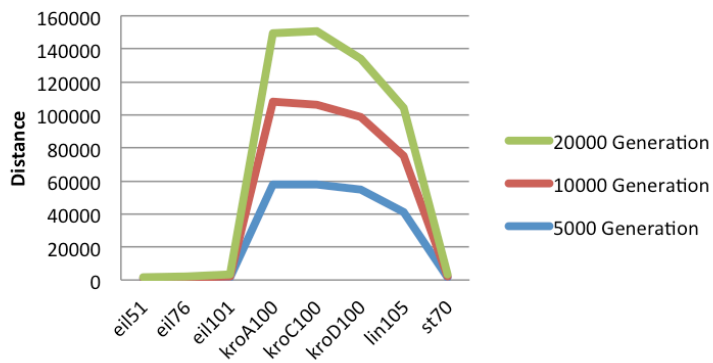
The following charts summarize the results achieved from Algorithm 2.



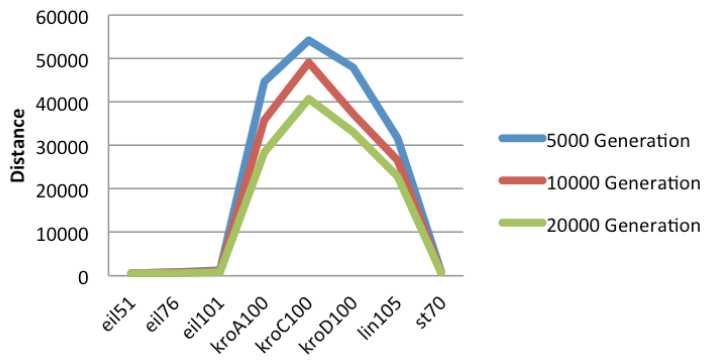


The following charts summarize the results achieved from Algorithm 3.

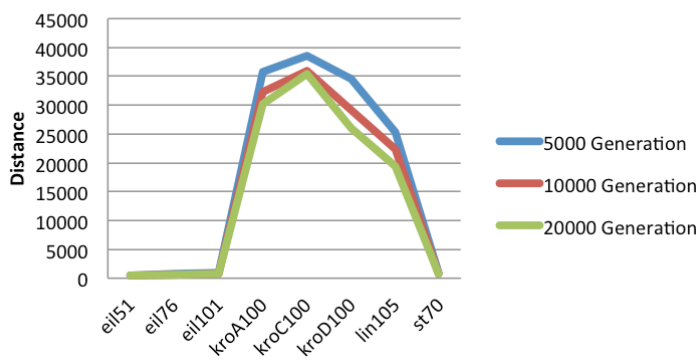
Algorithm 3 - Population Size = 10



Algorithm 3 - Population Size = 20



Algorithm 3 - Population Size = 50



Algorithm 3 - Population Size = 100

