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| Algorithm A: A* search | |
| Algorithm B: Genetic Algorithm | |
| Description of enhancement of Algorithm A: | |
| Algorithm A has been enhanced by changing the instead of nearest neighbour + random city back 2-opt implementation in order to improve the refringe pruning has been changed from randomly to taking the top 10 nodes of a 100 node fringe. heuristic. | to the start. The final tour is also passed into a sult further for a small increase in runtime. The taking the first 250 nodes of a 1000 node fringe |
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| Description of enhancement of Algorithm B: | |
| random permutations. Elitism has been impleme previous generation in the new generation. Cross and merging alternated prefix and suffix to inste been changed from swapping to random cities to | sover has been changed from just splitting in half ad using Ordered Crossover (OX). Mutation has o instead reversing a random subtour as this stead of always having a crossover it only occurs |