A1 Question 3:

# show plot

1. The brute force function for solving tsp is located at line 30 of a1q3.py (tsp\_solver\_brute\_force). Here are the stats for the brute force solution (documented at the end of q3\_logs.pdf):

{'mean': 2.4432349085582965, 'min': 1.397121188859637, 'max': 3.602886452745925, 'std': 0.3513613360988595}.

1. The random tour generation function is located at line 70 of a1q3.py (tsp\_random\_solver).

Here are the stats for the random solver solution (documented at the end of q3\_logs.pdf):

{'mean': 3.602650495783112, 'min': 1.9934395671404106, 'max': 5.661186871758963, 'std': 0.7538414944553328}.

1. The hill climbing solution is located at line 107 of a1q3.py(tsp\_hill\_climbing).

Here are the stats for the hill climbing solution (documented at the end of q3\_logs.pdf):

{'mean': 2.445095693715398, 'min': 1.397121188859637, 'max': 3.6028864527459254, 'std': 0.35127546933988923}

1. Random solver and hill climbing solution stats:

