1)



1a) See code

1b) Suggest some ways you might modify DDS to make it better. Assume the

parameter = 0.2 is fixed. Explain why your modification might be good on

certain set (type) of problems. You do not need to implement this

modification. There are many reasonable answers.

1c) From just looking at the graph, it appears that DDS is better than GA, which is then better than SA.

1d) Perform at least 3 algorithm comparison tests (e.g. boxplot, empirical cdf, hypothesis test, etc.) for 10,000 cost function evaluations for the best solutions at the end of each of the 20 trials for all algorithms SA, DDS and GA. Which algorithm performed the best based on the tests you performed? Is this consistent with what you concluded in the part (c)? Why or why not?