

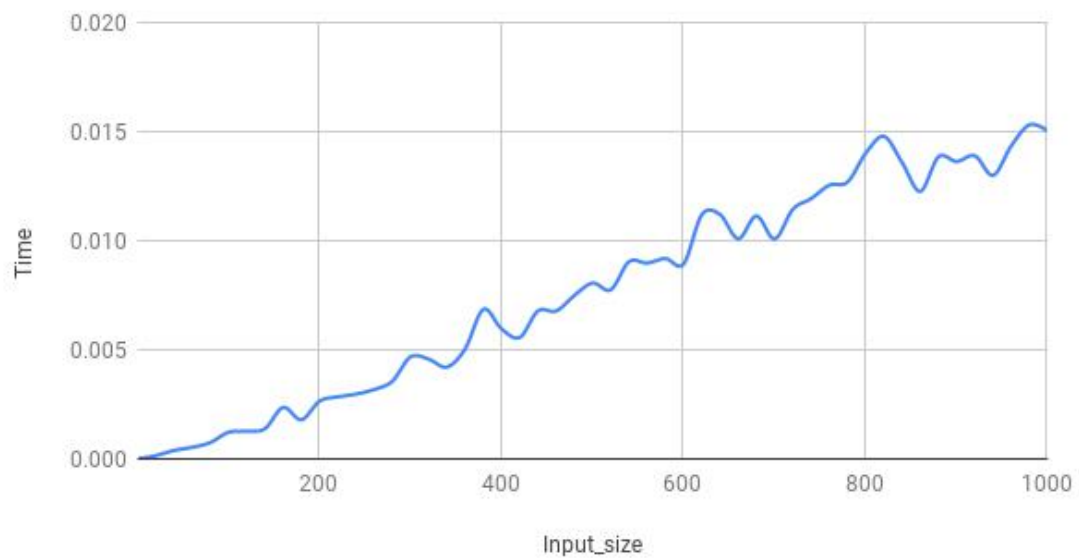
1BM19CS219 MAHANTES GATTINA

CONSTRAINT: rand() doesn't generate unique numbers, repetition is possible

QUICK SORT

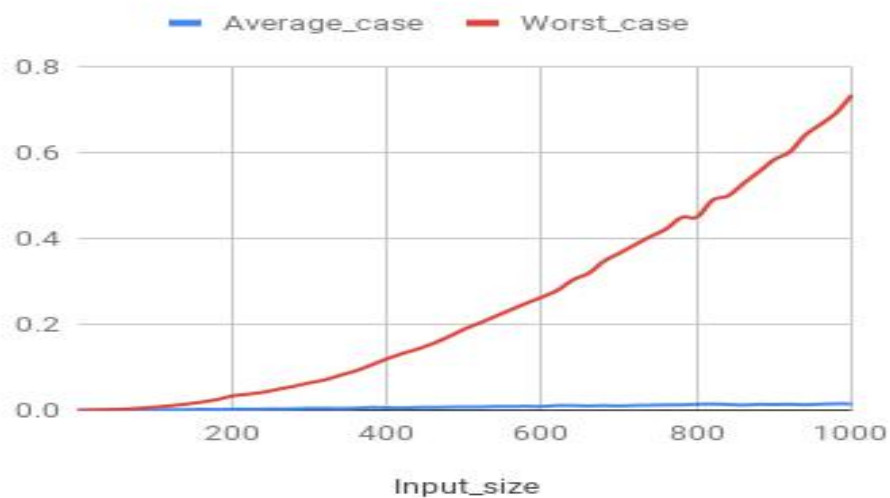
AVERAGE CASE: random input is considered here

Time vs. Input_size

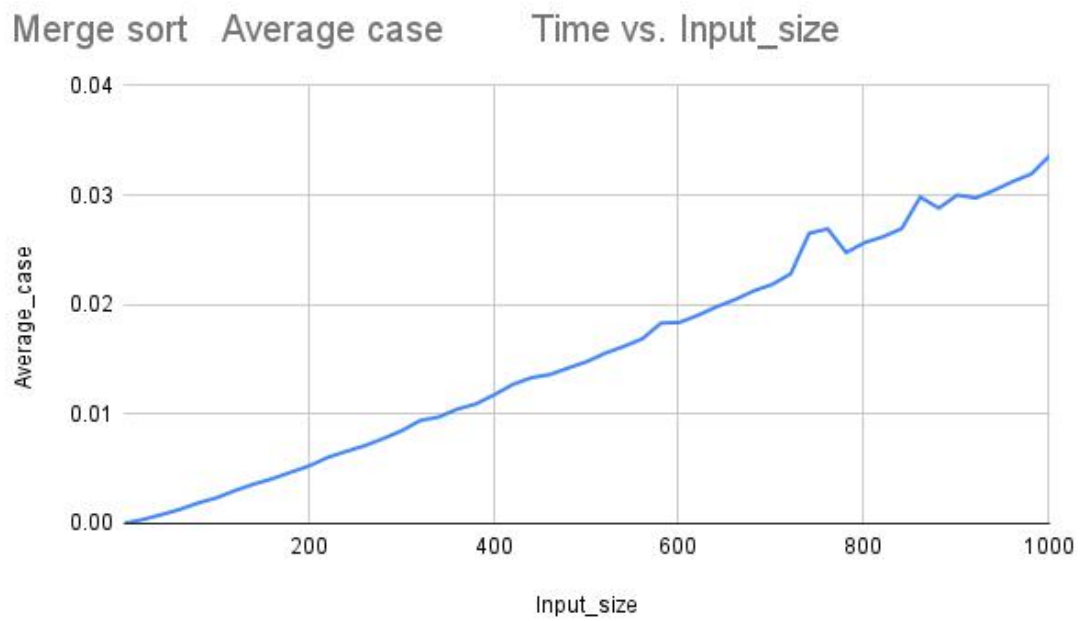


AVERAGE CASE VS WORST CASE:

Average_case and Worst_case



MERGE SORT:



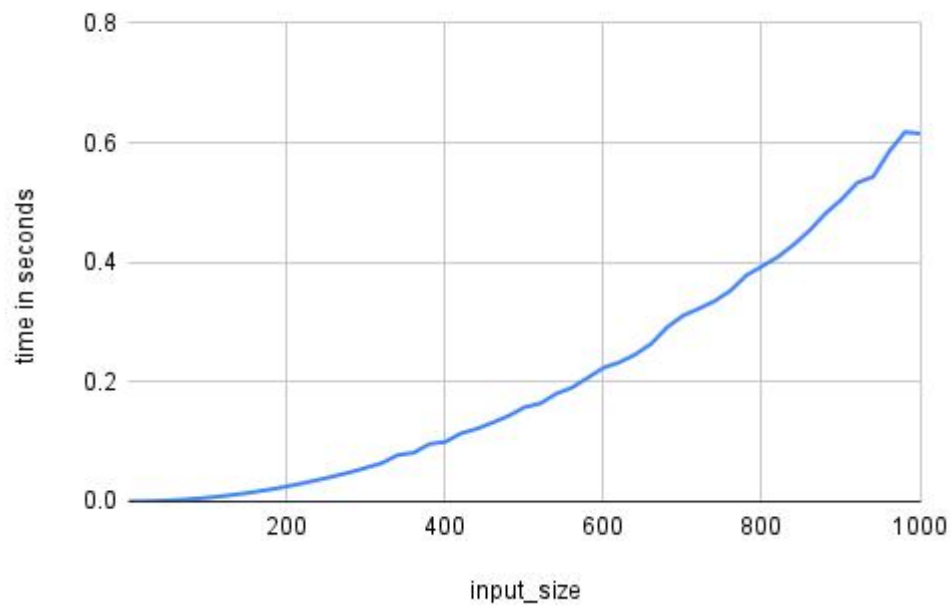
INSERTION SORT:

BEST CASE:



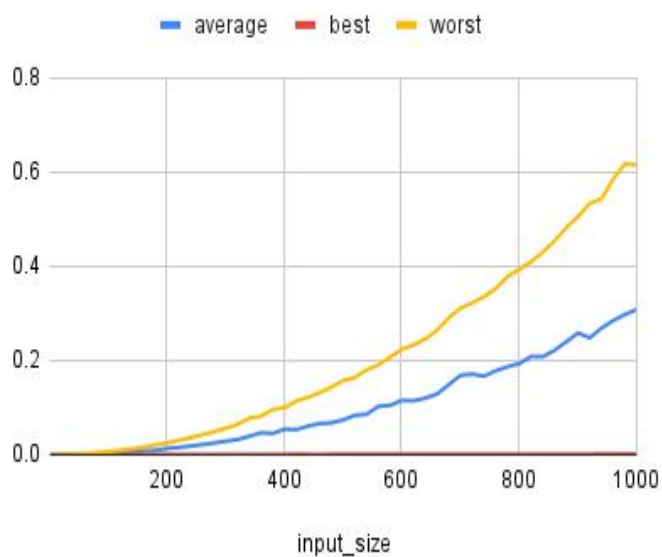
WORST CASE:

Insertion worst case sort time vs. input_size



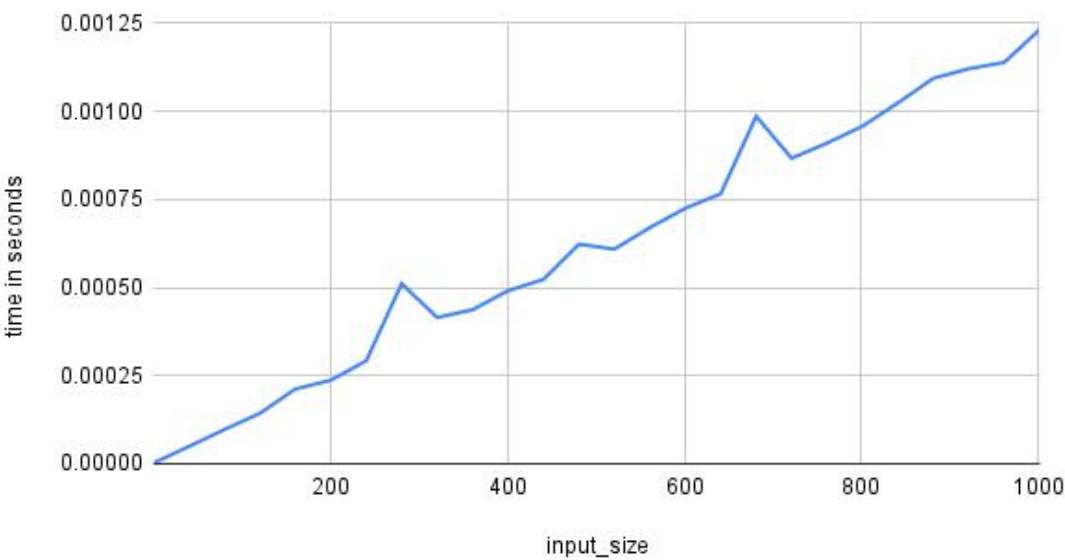
COMPARISON:

INSERTION SORT average, best and worst

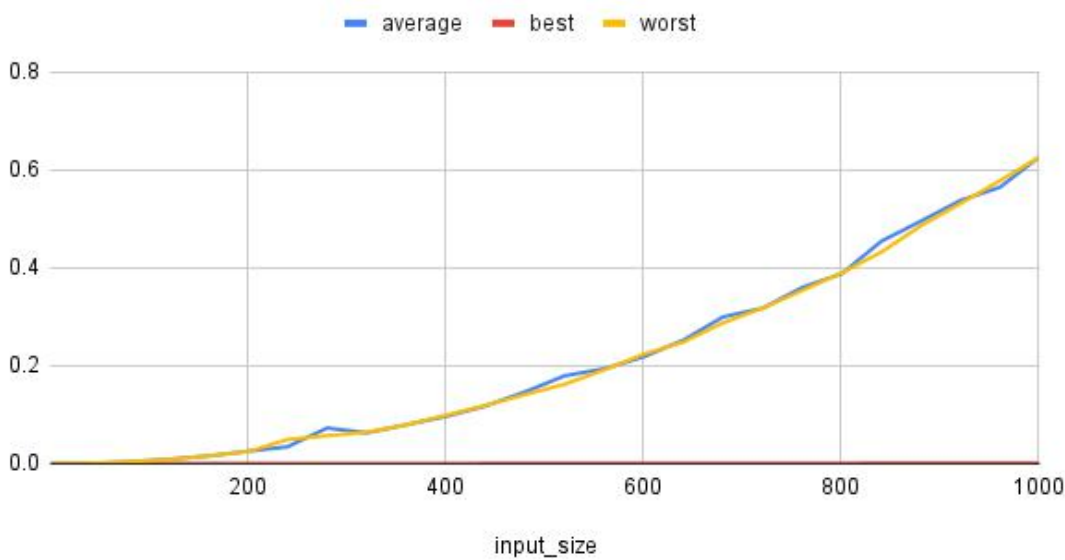


BUBBLE SORT:

BUBBLE SORT best case time vs. input_size



BUBBLE SORT average, best and worst



SELECTION SORT:

SELECTION SORT average, best and worst

