Program Structures and Algorithms Spring 2023

NAME: Prashanth Vobilishetty

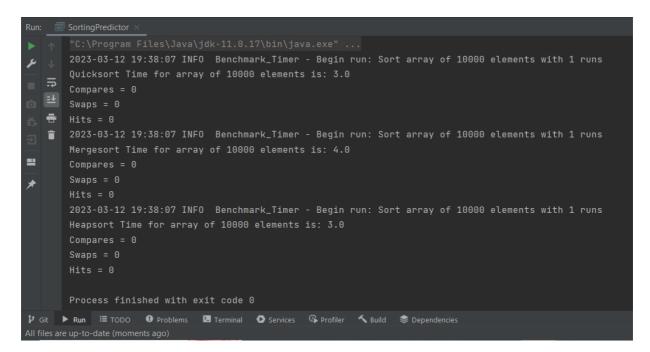
NUID: 002707220

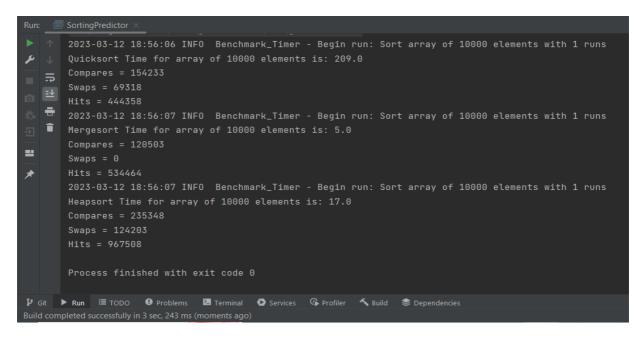
Task:

To determine, what is the best predictor of total execution time for comparisons, swaps/copies, hits (array accesses) of different sorting algorithms.

Relationship Conclusion: From the graphs and values we can conclude that hits and compares are both important predictors of the total execution time for a sorting algorithm.

Evidence to support that conclusion: Swaps cannot be a predictor of the execution time as for merge sort the number of swaps is always 0.





Graphical Representation:

