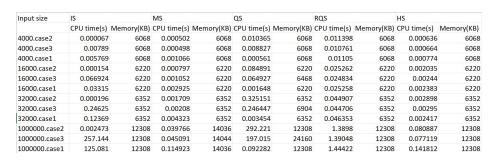
PA1 Report

• b10901059 林咏毅

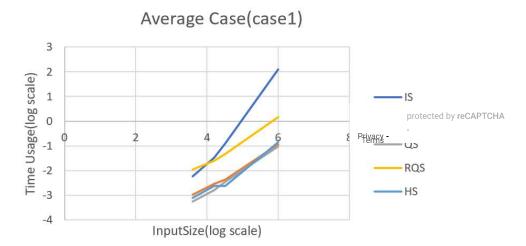
• Running Time and Memory Usage

- Run on EDA union lab machine (PORT = 40061)
 - In 1000000.case3.1, using "ulimit -s 16384" to fix segmentation fault
- Result as below



Plotting

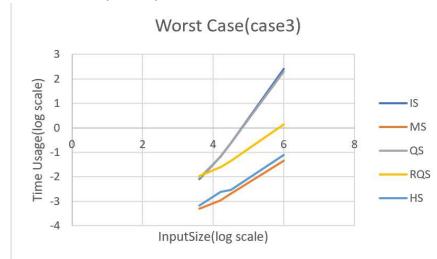
Average Case(case1)



Best Case(case2)



Worst Case(case3)



Plot observation

- In every case, RQS requires almost the same time in every case since it randomize the order for every sequence of inputs.
- In the worst case, IS consumes almost the same time as QS, since the both two algorithm require to traverse the whole sequence of inputs.
- In every case, MS and HS usually don't require too much time, since the both algorithm apply the devide and conquer method, which doesn't need to traverse the whole sequence.