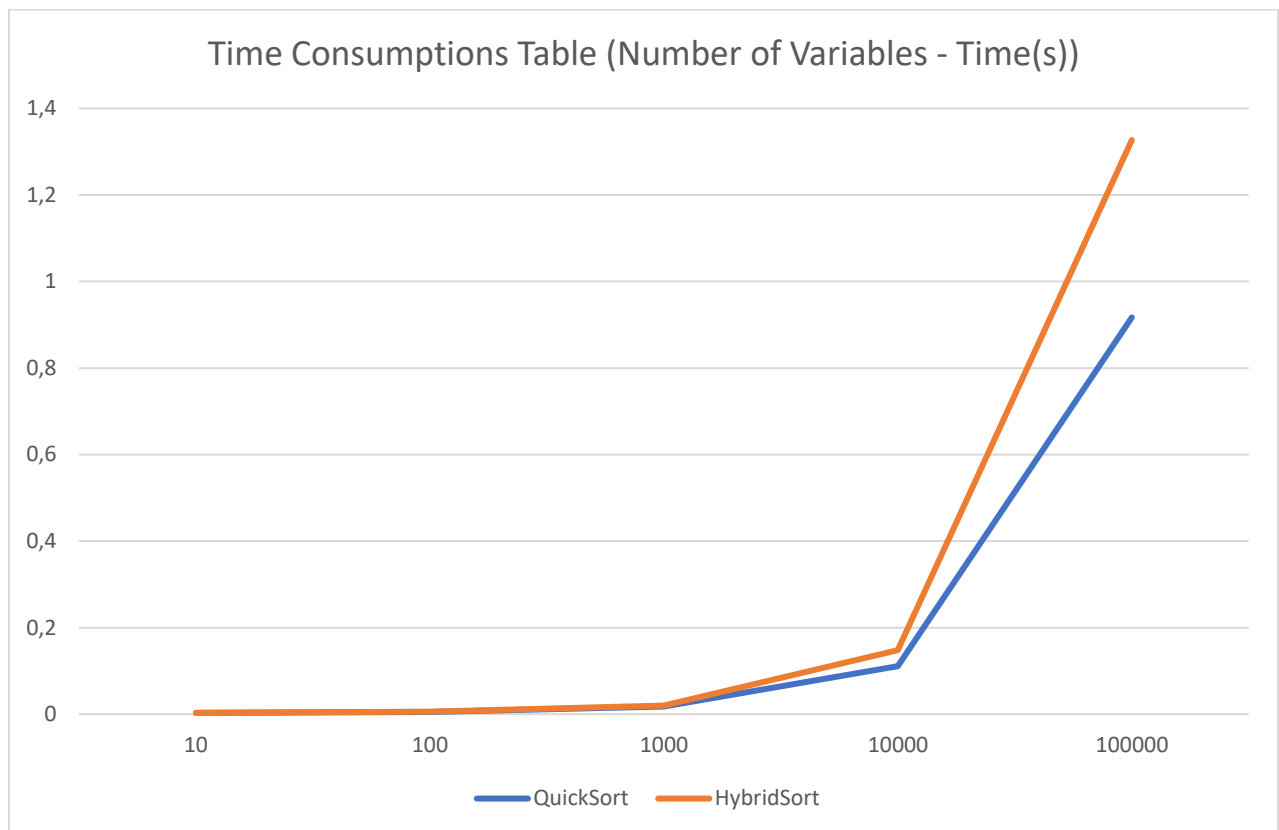


Question 1:



This graph shows that both of them are very near each other. However, it is possible that bucket sort is faster than the quick sort in millions or billions. Also, we need some improvements for my hybrid sort algorithm, so it can be faster than it.

Question 2:

Firstly, I created randomly, but it is a problem for my hybrid one because I should test my quicksort part and bucketsort part in my hybrid algorithm separately. Therefore, I improved my generateTest.c; I wrote my double numbers digit by digit. Thanks to this, I wrote 4 times as a same number for 4 digits after the comma for the creating first case. I just did it opposite for my second case. Therefore, I can test my code both quicksort and bucketsort parts for my hybrid algorithms.