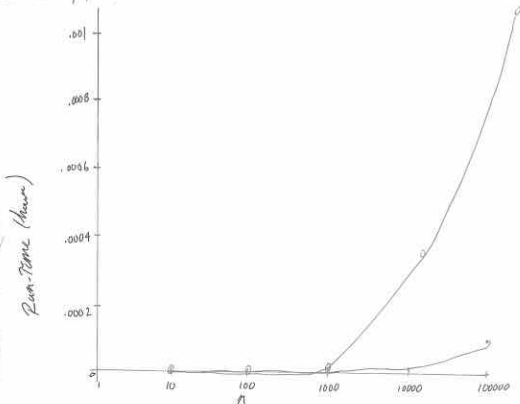


Amr Zoorey  
SID 1124539  
A03 (PART 2)  
Due date: 04/10/2021

O bubble sort  
• sort

04/09/2021



The run-time are vastly different due the size of the integer/number. As shown in the figure(graph), we could see that  $O(n^2)$ -bubble sort is faster, but less efficient compare to quick sort ( $O(n \log n)$ ). Also, as the numbers are getting sorted, quick sort continues to recursive as bubble sort will stop as soon as is done, which also makes it go faster.