The following is the result of sorting the completely sorted array:

Selection Sort-

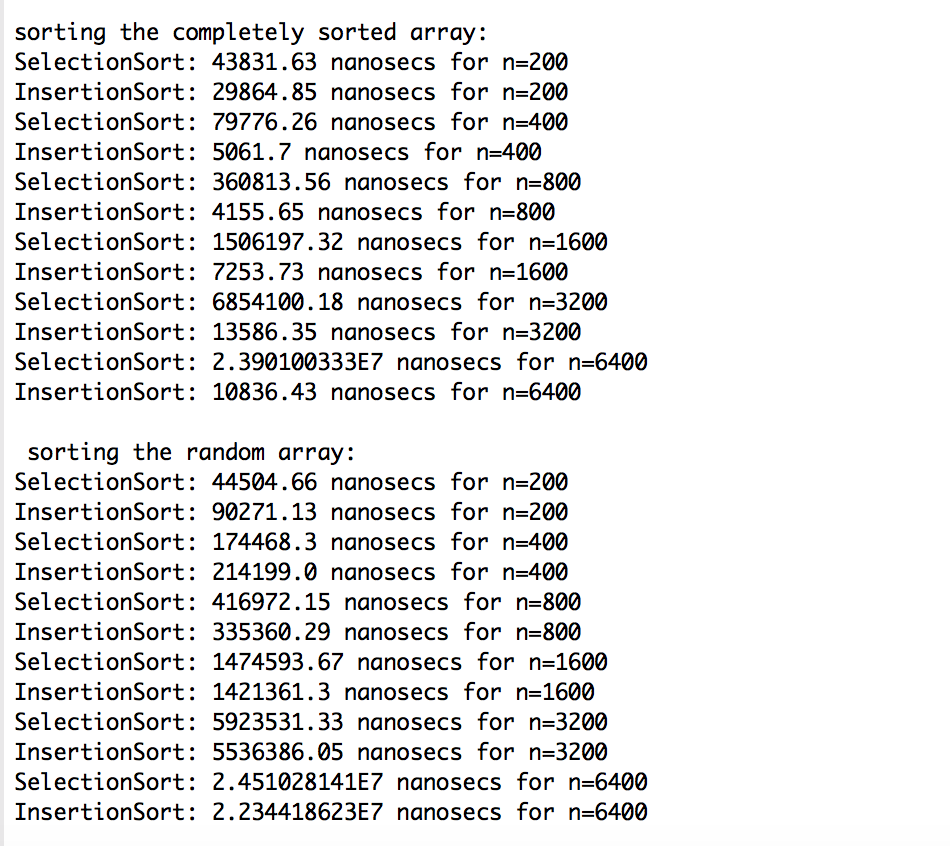
If the array is completely sorted the results of the time taken by the program shows that as the number of elements increases the time for Selection sort increases Significantly. I carried out the experiment for n =200 progressing with 200 in every run till 6400 and the results are as follows

Insertion sort-

If the array is completely sorted the results of the time taken by the program shows that as the number of elements increases the time for insertion sort does not increases Significantly. I carried out the experiment for n =200 progressing with 200 in every run till 6400 better than selection sort and the results are as follows.

The following is the result of sorting the random array:

For both insertion and selection sort , as the number of elements increases time taken to sort also increases. Carried out the experiment for n=200 progressing with 200 in every run till 6400.



The following is the result of sorting the partially sorted array:

Selection Sort-

If the array is partially sorted the time for the sort does not increase significantly , but if the number goes very high the time increase significantly I carried out the experiment for n=200 with progressing steps 200 till 6400 and the time shoot up for n = 6400

Insertion sort

If the array is partially sorted the time for the sort does not increase significantly , but if the number goes very high the time increase significantly I carried out the experiment for n=200 with progressing steps 200 till 6400 and the time shoot up for n = 6400 better than selection sort.

The following is the result of sorting the reverse sorted array:

Selection Sort-

If the array is reverse sorted the results of the time taken by the program shows that and the number of elements increases the time for Selection sort increases Significantly. I carried out the experiment for n =200 progressing with 200 in every run till 6400 and the results are as follows

Insertion sort

If the array is reverse sorted the results of the time taken by the program shows that and the number of elements increases the time for Insertion sort increases Significantly. I carried out the experiment for n =200 progressing with 200 in every run till 6400 but it shoots up for higher values and is more than the selection sort. and the results are as follows.

