

```
PS C:\work\ds\sorting> ./bubblesort
-----Bubble Sort ravish-----
Enter the size of the array (<=20): 10
arr[0] : 1
arr[1] : 5
arr[2] : 9
arr[3] : 3
arr[4] : 5
arr[5] : 7
arr[6] : 2
arr[7] : 4
arr[8] : 8
arr[9] : 6
```

```
Before bubble sort : 1 5 9 3 5 7 2 4 8 6
After bubble sort : 1 2 3 4 5 5 6 7 8 9
PS C:\work\ds\sorting> █
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```
PS C:\work\ds\sorting> ./insertionsort
-----Insertion Sort Ravish-----
Enter size of array (<=20): 10
Enter 1th element : 1
Enter 2th element : 5
Enter 3th element : 9
Enter 4th element : 3
Enter 5th element : 5
Enter 6th element : 7
Enter 7th element : 2
Enter 8th element : 4
Enter 9th element : 8
Enter 10th element : 6
```

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Array before insertion sort :
1 5 9 3 5 7 2 4 8 6
Array after insertion sort :
1 2 3 4 5 5 6 7 8 9
PS C:\work\ds\sorting> █
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```
PS C:\work\ds\sorting> ./mergesort
-----Merge Sort ravish-----
Enter the size of the arr (<=20) : 10
Enter arr[0]: 1
Enter arr[1]: 5
Enter arr[2]: 9
Enter arr[3]: 3
Enter arr[4]: 5
Enter arr[5]: 7
Enter arr[6]: 2
Enter arr[7]: 4
Enter arr[8]: 8
Enter arr[9]: 6
Unsorted array: 1 5 9 3 5 7 2 4 8 6
Sorted array: 1 2 3 4 5 5 6 7 8 9
PS C:\work\ds\sorting> █
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```
PS C:\work\ds\sorting> ./quicksort
-----Quick Sort ravish-----
Enter the size of the arr (<=20) : 10
Enter arr[0]: 1
Enter arr[1]: 5
Enter arr[2]: 9
Enter arr[3]: 3
Enter arr[4]: 5
Enter arr[5]: 7
Enter arr[6]: 2
Enter arr[7]: 4
Enter arr[8]: 8
Enter arr[9]: 6
Unsorted array: 1 5 9 3 5 7 2 4 8 6
Sorted array: 1 2 3 4 5 5 6 7 8 9
PS C:\work\ds\sorting> █
```

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```
PS C:\work\ds\sorting> ./selectionsort
-----Selection Sort ravish-----
Enter the size of the arr (<=20) : 10
Enter arr[0]: 1
Enter arr[1]: 5
Enter arr[2]: 9
Enter arr[3]: 3
Enter arr[4]: 5
Enter arr[5]: 7
Enter arr[6]: 2
Enter arr[7]: 4
Enter arr[8]: 8
Enter arr[9]: 6
Unsorted array: 1 5 9 3 5 7 2 4 8 6
Sorted array: 1 2 3 4 5 5 6 7 8 9
PS C:\work\ds\sorting> █
```