

# CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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<b>Started on</b>	Tuesday, 1 October 2024, 1:48 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 1 October 2024, 2:28 PM
<b>Time taken</b>	40 mins 43 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	10.00 out of 10.00 (100%)

### Question 1

Correct

Mark 1.00 out of 1.00

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Write a Program to Implement the Quick Sort Algorithm

Input Format:

The first line contains the no of elements in the list-n

The next n lines contain the elements.

Output:

Sorted list of elements

For example:

Input	Result
5 67 34 12 98 78	12 34 67 78 98

Answer:

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 int compare(const void* a, const void* b) {
4     return (*(int*)a - *(int*)b);
5 }
6 int main(){
7     int n;
8     scanf("%d",&n);
9     int arr[n];
10    for(int i=0;i<n;i++){
11        scanf("%d",&arr[i]);
12    }
13    qsort(arr, n, sizeof(int), compare);
14    int i;
15    for (i = 0; i < n; ++i) {
16        printf("%d ", arr[i]);
17    }
18    return 0;
19 }
```

	Input	Expected	Got	
✓	5 67 34 12 98 78	12 34 67 78 98	12 34 67 78 98	✓
✓	10 1 56 78 90 32 56 11 10 90 114	1 10 11 32 56 56 78 90 90 114	1 10 11 32 56 56 78 90 90 114	✓
✓	12 9 8 7 6 5 4 3 2 1 10 11 90	1 2 3 4 5 6 7 8 9 10 11 90	1 2 3 4 5 6 7 8 9 10 11 90	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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