



CS23331-DAA-2024-CSE / 5-Implementation of Quick Sort

## 5-Implementation of Quick Sort

Started on	Friday, 3 October 2025, 2:40 PM
State	Finished
Completed on	Friday, 3 October 2025, 2:52 PM
Time taken	11 mins 59 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 (100%)

**Question 1** | Correct Mark 1.00 out of 1.00 

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	12 34 67 78 98
67 34 12 98 78	

Answer:

```
1 #include<stdio.h>
2 int partition(int arr[],int low,int high){
3     int pivot=arr[high],i=low-1,temp;
4     for(int j=low;j<high;j++){
5         if(arr[j]<=pivot){
6             i++;
7             temp=arr[i];arr[i]=arr[j];arr[j]=temp;
8         }
9     }
10    temp=arr[i+1];arr[i+1]=arr[high];arr[high]=temp;
11    return i+1;
12 }
13 void quicksort(int arr[],int low,int high){
14     if(low<high){
15         int pi=partition(arr,low,high);
16         quicksort(arr,low,pi-1);
17         quicksort(arr,pi+1,high);
18     }
19 }
20 int main(){
21     int n;
22     scanf("%d",&n);
23     int arr[n];
24     for(int i=0;i<n;i++) scanf("%d",&arr[i]);
25     quicksort(arr,0,n-1);
26     for(int i=0;i<n;i++) printf("%d ",arr[i]);
27     return 0;
28 }
```

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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