



CHANDRU G S 2024-CSE ▾

C2

Started on	Thursday, 23 October 2025, 10:56 PM
State	Finished
Completed on	Tuesday, 4 November 2025, 7:02 PM
Time taken	11 days 20 hours
Marks	1.00/1.00
Grade	10.00 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 67 34 12 98 78	12 34 67 78 98

Answer:

```

1  #include<stdio.h>
2  void swap(int*a,int*b){
3      int t=*a;
4      *a=*b;
5      *b=t;
6  }
7  int partition(int arr[],int l,int r){
8      int p=arr[r];
9      int i=l-1;
10     for(int j=l;j<=r-1;j++){
11         if(arr[j]<p){
12             i++;
13             swap(&arr[i],&arr[j]);
14         }
15     }
16     swap(&arr[r],&arr[i+1]);
17     return (i+1);
18 }
19 void quickSort(int arr[],int l, int r){
20     if(l<r){
21         int m=partition(arr,l,r);
22         quickSort(arr,l,m-1);
23         quickSort(arr,m+1,r);
24     }
25 }
26 int main(){
27     int n;
28     scanf("%d",&n);
29     int arr[n];
30     for(int i=0;i<n;i++){
31         scanf("%d",&arr[i]);
32     }
33     quickSort(arr,0,n-1);
34     for(int i=0;i<n;i++){
35         printf("%d ",arr[i]);
36     }
37 }
38 }
39

```

	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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