Started on	Thursday, 18 September 2025, 9:31 AM
State	Finished
Completed on	Friday, 19 September 2025, 10:24 PM
Time taken	1 day 12 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	12 34 67 78 98
67 34 12 98 78	

Answer:

```
1  #include<stdio.h>
2  void quicksort(int arr[],int low,int high){
3      if(low<high){
4          int pivot=arr[high];
5          int i=low-1;
6          for(int j=low;j<high;j++){
7              if(arr[j]<pivot){
8                  i++;
9                  int temp= arr[i];
10                 arr[i]=arr[j];
11                 arr[j]=temp;
12             }
13         }
14         int temp=arr[i+1];
15         arr[i+1]=arr[high];
16         arr[high]=temp;
17
18         quicksort(arr,low,i);
19         quicksort(arr,i+2,high);
20     }
21 }
22 int main(){
23     int n;
24     scanf("%d",&n);
25     int arr[n];
26     for(int i=0;i<n;i++){
27         scanf("%d",&arr[i]);
28     }
29     quicksort(arr,0,n-1);
30     for(int i=0;i<n;i++){
31         printf("%d ",arr[i]);
32     }
33     return 0;
34 }
```

	Input	Expected	Got	
✔	5	12 34 67 78 98	12 34 67 78 98	✔
	67 34 12 98 78			

	Input	Expected	Got	
✔	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.