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## 5-Implementation of Quick Sort

**Started on** Tuesday, 4 November 2025, 6:05 PM

**State** Finished

**Completed on** Tuesday, 4 November 2025, 9:12 PM

**Time taken** 3 hours 6 mins

**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 quick(int a[],int l,int h){
3     if(l>=h){
4         return;
5     }
6     int p=a[h];
7     int i = l-1;
8     for(int j=l;j<h;j++){
9         if(a[j]<=p){
10            i++;
11            int t = a[i];
12            a[i]=a[j];
13            a[j]=t;
14        }
15    }
16    int t = a[i+1];
17    a[i+1] = a[h];
18    a[h]=t;
19    int pi = i+1;
20    quick(a,l,pi-1);
21    quick(a,pi+1,h);
22 }
23 int main(){
24     int n;
25     scanf("%d",&n);
26     int a[n];
27     for(int i=0;i<n;i++){
28         scanf("%d",&a[i]);
29     }
30     quick(a,0,n-1);
31     for(int i=0;i<n;i++){
32         printf("%d ",a[i]);
33     }
34     return 0;
35 }
```

	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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