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**Started on** Wednesday, 22 October 2025, 10:26 AM

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**State** Finished

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**Completed on** Wednesday, 22 October 2025, 10:33 AM

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**Time taken** 7 mins 37 secs

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**Marks** 1.00/1.00

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**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}
```

```

15     arr[pi] = arr[high],
16     arr[high] = temp;
17     int pi = i + 1;
18     quickSort(arr, low, pi - 1);
19     quickSort(arr, pi + 1, 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 }
35

```

	<b>Input</b>	<b>Expected</b>	<b>Got</b>	
✓	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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