



Dashboard My courses

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



5-Implementation of Quick Sort

Started on	Tuesday, 30 September 2025, 12:16 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 12:17 PM
Time taken	33 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

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			

Answer:

```
1 #include <stdio.h>
3 void swap(int *a, int *b) {
        int t = *a;
        *a = *b;
9 v int partition(int arr[], int low, int high) {
       int pivot = arr[high];
       int i = low - 1;
12 v
        for (int j = low; j < high; j++) {
           if (arr[j] < pivot) {</pre>
14
               swap(&arr[i], &arr[j]);
       swap(&arr[i + 1], &arr[high]);
20 }
22 void quickSort(int arr[], int low, int high) {
       if (low < high) {
           int pi = partition(arr, low, high);
           quickSort(arr, low, pi - 1);
           quickSort(arr, pi + 1, high);
28 }
30 v int main() {
       scanf("%d", &n);
       int arr[n];
       for (int i = 0; i < n; i++) scanf("%d", &arr[i]);
        quickSort(arr, 0, n - 1);
       for (int i = 0; i < n; i++) printf("%d ", arr[i]);
38
        printf("\n");
40
       return 0;
```

Input	Expected	Got	
Г	12 24 67 79 09	12 24 67 79 09	

•	67 34 12 98 78	12 34 07 70 90	12 34 07 70 90	•
~	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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