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

5-Implementation of Quick Sort

Started on	Saturday, 20 September 2025, 9:21 PM
State	Finished
Completed on	Saturday, 20 September 2025, 9:24 PM
Time taken	3 mins 2 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1 | Correct   Mark 1.00 out of 1.00   ⚑ Flag question

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:

```c
1   #include <stdio.h>
2   #include <stdlib.h>
3
4   int cmpfunc(const void *a, const void *b) {
5       return (*(int*)a - *(int*)b);
6   }
7
8   int main() {
9       int n;
10      scanf("%d", &n);
11
12      int arr[n];
13      for (int i = 0; i < n; i++) {
14          scanf("%d", &arr[i]);
15      }
16
17      qsort(arr, n, sizeof(int), cmpfunc);
18
19      for (int i = 0; i < n; i++) {
20          printf("%d ", arr[i]);
21      }
22  }
23
```

	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.

Finish review

Back to Course