```
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:

```
#include<stdio.h>
    void Quicksort(int nums[],int left,int right);
 2
 3
   int main()
 4 ▼ {
 5
         int n;
         scanf("%d",&n);
 6
 7
         int nums[n];
 8
        for(int i=0;i<n;i++)</pre>
 9
             scanf("%d",&nums[i]);
10
11
         int left=0, right=n-1;
12
13
        Quicksort(nums,left,right);
        for(int i=0;i<n;i++)</pre>
14
15
16
             printf("%d ",nums[i]);
17
18
19
    void Quicksort(int nums[],int left,int right)
20 🔻
21
         int i,j,temp,pivot;
22
         if(left<right)</pre>
23
24
             pivot=left;
25
             i=left;
26
             j=right;
27
             while(i<j)
28
29
                 while(nums[i]<=nums[pivot] && i<=right-1)</pre>
30
                      i++;
                 while(nums[j]>nums[pivot] && j>=left+1)
31
32
                      j--;
33
                  if(i<j)</pre>
34
35
                      temp=nums[i];
                      nums[i]=nums[j];
36
37
                      nums[j]=temp;
38
                  }
39
40
             temp=nums[pivot];
41
             nums[pivot]=nums[j];
42
             nums[j]=temp;
43
             Quicksort(nums, left, j-1);
44
             Quicksort(nums,j+1,right);
1 □
```

4)	1	ſ
46	}	
47		

	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.

# ◄ 4-Two Elements sum to x

Jump to...

1-DP-Playing with Numbers ►