

CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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Quiz navigation

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✓

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|---------------------|---------------------------------------|
| Started on | Wednesday, 18 September 2024, 9:45 PM |
| State | Finished |
| Completed on | Thursday, 19 September 2024, 6:53 PM |
| Time taken | 21 hours 8 mins |
| 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

Problem Statement:

Given a sorted array and a value x, the floor of x is the largest element in array smaller than or equal to x. Write divide and conquer algorithm to find floor of x.

Input Format

First Line Contains Integer n – Size of array
Next n lines Contains n numbers – Elements of an array
Last Line Contains Integer x – Value for x

Output Format

First Line Contains Integer – Floor value for x

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,x;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0 ;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     scanf("%d",&x);
10    for(int i=0;i<n;i++){
11        if(arr[i]>x){
12            break;
13        }
14        else if(arr[i]<=x && arr[i+1]>x){
15            printf("%d",arr[i]);
16        }
17    }
18 }
```

| | Input | Expected | Got | |
|---|---|----------|-----|---|
| ✓ | 6 1 2 8 10 12 19 5 | 2 | 2 | ✓ |
| ✓ | 5 10 22 85 108 129 100 | 85 | 85 | ✓ |
| ✓ | 7 3 5 7 9 11 13 15 10 | 9 | 9 | ✓ |

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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◀ 2-Majority Element

Jump to...



4-Two Elements sum to x ▶