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3-Finding Floor Value

Started on	Wednesday, 17 September 2025, 9:08 AM
State	Finished
Completed on	Tuesday, 4 November 2025, 5:42 PM
Time taken	48 days 8 hours
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 

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 }
```

```
3     int n,x;
4     scanf("%d",&n);
5     int a[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&a[i]);
8     }
9     scanf("%d",&x);
10    int f=-1;
11    for(int i=0;i<n;i++){
12        if(a[i]<=x){
13            f=a[i];
14        }else{
15            break;
16        }
17    }
18    printf("%d",f);
19    return 0;
20}
21
```

	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	9	9	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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