3-Finding Floor Value

Started on	Tuesday, 9 September 2025, 1:05 PM
State	Finished
Completed on	Tuesday, 9 September 2025, 1:12 PM
Time taken	7 mins 5 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

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 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int m[n];
    for(int i=0;i<n;i++){
        scanf("%d",&m[i]);
    }
    int x;
    scanf("%d",&x);

    for(int i=0;i<n;i++){
        for(int j=i+1;j<n;j++){
            if(m[i]>m[j]){
                int temp=m[i];
                m[i]=m[j];
                m[j]=temp;
            }
        }
    }
    int c=0;
    for(int i=0;i<n;i++){
        if(m[i]<x){
            c=m[i];
        }
    }
    printf("%d",c);

}
```

	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.

Finish review

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