

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,fin;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++)scanf("%d",&arr[i]);
7     scanf("%d",&x);
8     for(int j=0;j<n;j++){
9         {
10             int max=arr[j];
11             if(arr[j+1]>max){
12                 max=arr[j+1];
13                 if(max<=x)fin=max;
14             }
15         }
16         printf("%d",fin);
17     }
18 }
```

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