

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

Quiz navigation



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Question **1**

Correct

Mark 1.00 out of 1.00

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Status	Finished
Started	Wednesday, 19 March 2025, 10:22 PM
Completed	Wednesday, 19 March 2025, 10:33 PM
Duration	10 mins 24 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Assume you are an awesome parent and want to give your children some cookies. But, you should give each child at most one cookie.

Each child i has a greed factor $g[i]$, which is the minimum size of a cookie that the child will be content with; and each cookie j has a size $s[j]$. If $s[j] \geq g[i]$, we can assign the cookie j to the child i , and the child i will be content. Your goal is to maximize the number of your content children and output the maximum number.

Example 1:

Input:

3
1 2 3
2
1 1

Output:

1

Explanation: You have 3 children and 2 cookies. The greed factors of 3 children are 1, 2, 3.
And even though you have 2 cookies, since their size is both 1, you could only make the child whose greed factor is 1 content.
You need to output 1.

Constraints:

$1 \leq g.length \leq 3 \times 10^4$
 $0 \leq s.length \leq 3 \times 10^4$
 $1 \leq g[i], s[j] \leq 2^{31} - 1$

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int max(int a[], int n,int b[],int c)
3 {
4     int i=0,j=0,count=0;
5     while(i<n && j<c)
6     {
7         if(b[j]>a[i])
8         {
9             count++;
10            i++;
11        }
12        j++;
13    }
14    return count;
15 }
16 int main()
17 {
18     int n;
19     scanf("%d",&n);
20     int a[n];
21     for(int i=0;i<n;i++)
22     {
23         scanf("%d",&a[i]);
24     }
25     int c;
26     scanf("%d",&c);
27     int b[c];
28     for(int i=0;i<c;i++)
29     {
30         scanf("%d",&b[i]);
31     }
32     printf("%d\n",max(a,n,b,c));
33     return 0;
34 }
35 }
```

	Input	Expected	Got	
	2	2	2	
	1 2			
	3			
	1 2 3			

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

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