<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Greedy Algorithms</u> / <u>2-G-Cookies Problem</u>

Started on	Thursday, 22 August 2024, 10:33 AM
State	Finished
Completed on	Thursday, 22 August 2024, 10:54 AM
Time taken	20 mins 58 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

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] >= 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

123

2

11

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 <= g.length <= 3 * 10^4
0 <= s.length <= 3 * 10^4
1 <= g[i], s[j] <= 2^31 - 1
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 v int main(){
 3
        int n,g[3000],m,s[3000];
4
        scanf("%d",&n);
5
        for(int i=0;i<n;i++)</pre>
6
             scanf("%d",&g[i]);
7
        n-=1;
        scanf("%d",&m);
8
9
        for(int i=0;i<m;i++)</pre>
             scanf("%d",&s[i]);
10
11
        m-=1;
12
        for(int i=m;i>0;i--){
13
             if(s[i]>=g[n]){
                 printf("%d",g[n]);
14
15
                 break;
16
             }
17
             else
18
19
        return 0;
20
21
```

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ 1-G-Coin Problem

Jump to...

3-G-Burger Problem ►