<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	Monday, 26 August 2024, 10:00 PM
State	Finished
Completed on	Monday, 26 August 2024, 10:00 PM
Time taken	14 secs
Marks	1.00/1.00
C	40.00 4 - (10.00 (4000))

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

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

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
     #include <stdlib.h>
 3
 4
     int main()
 5 ₹
 6
           int n1,n2,m=0;
           scanf("%d",&n1);
 7
 8
           int g[n1];
           for(int i=0;i<n1;i++)</pre>
 9
10
                 scanf("%d",&g[i]);
           int s[n2];
scanf("%d",&n2);
for(int i=0;i<n2;i++)</pre>
11
12
13
                 scanf("%d",&s[i]);
14
           for (int i = 0; i < n1; i++) {
    for (int j = 0; j < n2; j++) {
        if (s[j] >= g[i]) {
15 •
16 •
17 •
18
19
                            s[j] = -1;
20
21
                      }
22
                 }
23
           printf("%d",m);
24
25
26
```

	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 ►