Started on	Friday, 23 August 2024, 1:50 PM
State	Finished
Completed on	Friday, 23 August 2024, 1:57 PM
Time taken	7 mins 7 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

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 <= g.length <= 3 * 10^4

0 <= s.length <= 3 * 10^4

1 <= g[i], s[j] <= 2^31 - 1

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>

void sort(int arr[], int n) {
    for (int i = 0; i < n - 1; i++) {
        for (int j = i + 1; j < n; j++) {
            if (arr[i] > arr[j]) {
                int temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
            }
        }
    }
}

int content_children(int g[], int s[], int g_length, int s_length) {
    sort(g, g_length);
    sort(s, s_length);
    int i, j;
    for (i = j = 0; i < g_length && j < s_length; j++) {
        if (s[j] >= g[i]) i++;
    }
    return i;
}

int main() {
    int g_length, s_length;
    scanf("%d", &g_length);
    int g[g_length];
    for (int i = 0; i < g_length; i++) scanf("%d", &g[i]);
    scanf("%d", &s_length);
    int s[s_length];
    for (int i = 0; i < s_length; i++) scanf("%d", &s[i]);
    printf("%d\n", content_children(g, s, g_length, s_length));
    return 0;
}
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ 1-G-Coin Problem

Jump to...

3-G-Burger Problem ►