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CS23331-DAA-2024-CSE / 2-G-Cookies Problem



## 2-G-Cookies Problem

Started on	Sunday, 31 August 2025, 3:51 PM
State	Finished
Completed on	Sunday, 31 August 2025, 3:52 PM
Time taken	1 min 13 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

**Question 1** | Correct | Mark 1.00 out of 1.00 | [Flag question](#)

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:**

```
2
```

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:**

$1 \leq g.length \leq 3 \cdot 10^4$

$0 \leq s.length \leq 3 \cdot 10^4$

$1 \leq g[i], s[j] \leq 2^{31} - 1$

**Answer:** (penalty regime: 0 %)

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