455 Assign Cookies

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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.

Note:

You may assume the greed factor is always positive.

You cannot assign more than one cookie to one child.

Example 1:

Input: [1,2,3], [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.

Example 2:

Input: [1,2], [1,2,3]

Output: 2

Explanation: You have 2 children and 3 cookies. The greed factors of 2 children are 1, 2. You have 3 cookies and their sizes are big enough to gratify all of the children, You need to output 2.

来自 < https://leetcode.com/problems/assign-cookies/description/>

假设你是一位很棒的家长,想要给你的孩子们一些小饼干。但是,每个孩子最多只能给一块饼干。对每个孩子 i ,都有一个胃口值 g_i ,这是能让孩子们满足胃口的饼干的最小尺寸;并且每块饼干 j ,都有一个尺寸 s_j 。如果 s_j >= g_i ,我们可以将这个饼干 j 分配给孩子 i ,这个孩子会得到满足。你的目标是尽可能满足越多数量的孩子,并输出这个最大数值。

注意:

你可以假设胃口值为正。

一个小朋友最多只能拥有一块饼干。

来自 < https://leetcode-cn.com/problems/assign-cookies/description/>

Solution for Python3:

- 1 class Solution:
- def findContentChildren(self, g, s):

```
0.00
 3
 4
             :type g: List[int]
 5
             :type s: List[int]
             :rtype: int
 6
 7
 8
             g.sort()
             s.sort()
 9
             i, j= 0, 0
10
             while i < len(g) and j < len(s):
11
12
                 if s[j] >= g[i]:
13
                    i += 1
                 j += 1
14
15
             return i
```

Solution for C++:

```
1 class Solution {
 2 public:
       int findContentChildren(vector<int>& g,
 4 vector<int>& s) {
            sort(begin(g), end(g));
 5
            sort(begin(s), end(s));
 6
            int i = 0;
 7
            for (int j = 0; i < g.size() && j</pre>
 8
 9 < s.size(); j++) {</pre>
                if (g[i] <= s[j]) {</pre>
10
                     i++;
11
                 }
12
13
14
            return i;
       }
   };
```