### **Assign Cookies**

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.

# Solution 1

```
Arrays.sort(g);
Arrays.sort(s);
int i = 0;
for(int j=0;i<g.length && j<s.length;j++) {
   if(g[i]<=s[j]) i++;
}
return i;</pre>
```

Just assign the cookies starting from the child with less greediness to maximize the number of happy children .

written by fabrizio3 original link here

# Solution 2

My solution from the contest:

```
def findContentChildren(self, g, s):
    g.sort()
    s.sort()
    res = 0
    i = 0
    for e in s:
        if i == len(g):
            break
        if e >= g[i]:
            res += 1
            i += 1
        return res
```

O(nlogn) time and O(1) space written by dalwise original link here

# Solution 3

written by vikram4 original link here

From Leetcoder.