

## [455 Assign Cookies \(link\)](#)

### Description

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:**  $g = [1,2,3]$ ,  $s = [1,1]$

**Output:** 1

**Explanation:** You have 3 children and 2 cookies. The greed factors of 3 children are 1 And even though you have 2 cookies, since their size is both 1, you could only make t  
You need to output 1.

#### Example 2:

**Input:**  $g = [1,2]$ ,  $s = [1,2,3]$

**Output:** 2

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

#### Constraints:

- $1 \leq g.length \leq 3 \cdot 10^4$
- $0 \leq s.length \leq 3 \cdot 10^4$
- $1 \leq g[i], s[j] \leq 2^{31} - 1$

(scroll down for solution)

# Solution

Language: *cpp*

Status: Accepted

```
#include <vector>
#include <algorithm>

using namespace std;

class Solution {
public:
    int findContentChildren(vector<int>& g, vector<int>& s) {
        sort(g.begin(), g.end()); // Сортируем жадность детей
        sort(s.begin(), s.end()); // Сортируем размеры печенек

        int i = 0; // Индекс для жадности детей
        int j = 0; // Индекс для размеров печенек
        int satisfiedChildren = 0; // Счетчик удовлетворенных детей

        // Проходим по обоим массивам
        while (i < g.size() && j < s.size()) {
            if (s[j] >= g[i]) { // Если размер печеньки удовлетворяет жадности ребенка
                satisfiedChildren++;
                i++; // Переходим к следующему ребенку
            }
            j++; // В любом случае переходим к следующей печенье
        }

        return satisfiedChildren;
    }
};
```