

Problem 455: Assign Cookies

Problem Information

Difficulty: Easy

Acceptance Rate: 54.48%

Paid Only: No

Tags: Array, Two Pointers, Greedy, Sorting

Problem 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, 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: $g = [1,2]$, $s = [1,2,3]$ **Output:** 2 **Explanation:** You have 2 children and 3 cookies. The greed factors of 2 children are 1, 2. You have 3 cookies and their sizes are big enough to gratify all of the children, You need to output 2.

Constraints:

$1 \leq g.length \leq 3 \times 10^4$ $0 \leq s.length \leq 3 \times 10^4$ $1 \leq g[i], s[j] \leq 231 - 1$

****Note:**** This question is the same as [2410: Maximum Matching of Players With Trainers.](<https://leetcode.com/problems/maximum-matching-of-players-with-trainers/description/>)

Code Snippets

C++:

```
class Solution {
public:
    int findContentChildren(vector<int>& g, vector<int>& s) {

    }
};
```

Java:

```
class Solution {
    public int findContentChildren(int[] g, int[] s) {

    }
}
```

Python3:

```
class Solution:
    def findContentChildren(self, g: List[int], s: List[int]) -> int:
```