

Problem 135: Candy

Problem Information

Difficulty: Hard

Acceptance Rate: 47.53%

Paid Only: No

Tags: Array, Greedy

Problem Description

There are n children standing in a line. Each child is assigned a rating value given in the integer array `ratings`.

You are giving candies to these children subjected to the following requirements:

- * Each child must have at least one candy.
- * Children with a higher rating get more candies than their neighbors.

Return `_` the minimum number of candies you need to have to distribute the candies to the children `_`.

Example 1:

Input: `ratings = [1,0,2]` **Output:** `5` **Explanation:** You can allocate to the first, second and third child with 2, 1, 2 candies respectively.

Example 2:

Input: `ratings = [1,2,2]` **Output:** `4` **Explanation:** You can allocate to the first, second and third child with 1, 2, 1 candies respectively. The third child gets 1 candy because it satisfies the above two conditions.

Constraints:

$n == ratings.length$ $1 \leq n \leq 2 * 10^4$ $0 \leq ratings[i] \leq 2 * 10^4$

Code Snippets

C++:

```
class Solution {  
public:  
    int candy(vector<int>& ratings) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int candy(int[] ratings) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def candy(self, ratings: List[int]) -> int:
```