Please solve the following problem in your preferred coding language.

All problems are functional (Don't need to take any input from the user)

Duration: 30 mins

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.
-

Function signature:

```python
def candy_distribution(ratings: List[int]) -> int:
    pass
```

Input:

- ratings: A list of integers representing the ratings of children.

Output:

- The candy_distribution function should return an integer representing the minimum number of candies required to distribute among the children while satisfying the given conditions.

Example:

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

Output:

```
Python
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 <= n <= 2 * 104
- 0 <= ratings[i] <= 2 * 104