Candy

For this problem we need to distribute candies according to two rules:

1. Every child must have at least 1 candy.
2. Children with higher ratings than their neighbors must get more candies.

We must minimize the total candies distributed.

Key Idea: Two-Pass Greedy:

Steps: 1. Initialize all candies to 1 (minimum requirement)

2. Left to right pass:
   - If rating[i] > rating[i-1], give candies[i] = candies[i-1]+1
3. Right to left pass:
   - If ratings[i] > ratings[i+1], ensure candies[i] = max(candies[i], candies[i+1]+1).
4. Sum candies.

Complexity:

- Time: O(n) (two passes)
- Space: O(n) (candies array) - can be optimized to O(1) but more complex