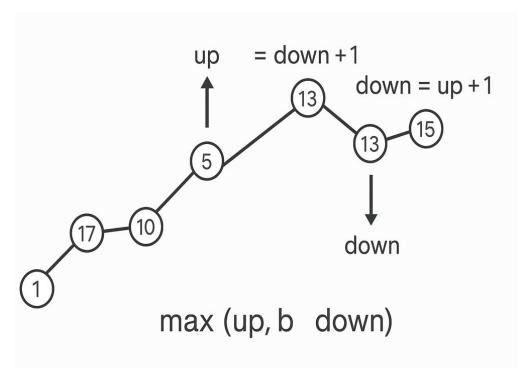
Approach

To find the longest wiggle subsequence, we don't need to store the whole sequence — just track trends: up and down. Each time the trend changes, we extend our subsequence.

Approach



- 1. Initialize two counters: up and down, both as 1.
- 2. Loop through the array:
 - If current > previous \rightarrow it's an upward wiggle \rightarrow update up = down + 1.
 - If current < previous \rightarrow it's a downward wiggle \rightarrow update down = up + 1.
 - If equal \rightarrow skip.
- 3. Return the maximum of both.

This technique shines for its constant space and clean logic.

Complexity

Time Complexity:

(O(n)) — single pass through the array.

Space Complexity:

(O(1)) — only two variables used.