Problem 1014: Best Sightseeing Pair

Problem Information

Difficulty: Medium
Acceptance Rate: 62.63%
Paid Only: No
Tags: Array, Dynamic Programming

Problem Description

You are given an integer array `values` where values[i] represents the value of the `ith` sightseeing spot. Two sightseeing spots `i` and `j` have a **distance** `j - i` between them.

The score of a pair (`i < j`) of sightseeing spots is `values[i] + values[j] + i - j`: the sum of the values of the sightseeing spots, minus the distance between them.

Return _the maximum score of a pair of sightseeing spots_.

Example 1:

Input: values = [8,1,5,2,6] **Output:** 11 **Explanation:** i = 0, j = 2, values[i] + values[j] + i - j = 8 + 5 + 0 - 2 = 11

Example 2:

Input: values = [1,2] **Output:** 2

Constraints:

* `2 <= values.length <= 5 * 104` * `1 <= values[i] <= 1000`

Code Snippets

C++:

```
class Solution {
public:
int maxScoreSightseeingPair(vector<int>& values) {

}
};
```

Java:

```
class Solution {
public int maxScoreSightseeingPair(int[] values) {

}
}
```

Python3:

```
class Solution:
def maxScoreSightseeingPair(self, values: List[int]) -> int:
```