

# Problem 2511: Maximum Enemy Forts That Can Be Captured

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 40.70%

**Paid Only:** No

**Tags:** Array, Two Pointers

## Problem Description

You are given a **0-indexed** integer array `forts` of length `n` representing the positions of several forts. `forts[i]` can be `-1`, `0`, or `1` where:

\* `-1` represents there is **no fort** at the `i`th position. \* `0` indicates there is an **enemy** fort at the `i`th position. \* `1` indicates the fort at the `i`th position is under your command.

Now you have decided to move your army from one of your forts at position `i` to an empty position `j` such that:

\*  $0 \leq i, j \leq n - 1$  \* The army travels over enemy forts **only**. Formally, for all `k` where  $\min(i, j) < k < \max(i, j)$ , `forts[k] == 0`.

While moving the army, all the enemy forts that come in the way are **captured**.

Return the maximum number of enemy forts that can be captured. In case it is **impossible** to move your army, or you do not have any fort under your command, return `0`.

**Example 1:**

**Input:** `forts = [1,0,0,-1,0,0,0,1]` **Output:** `4` **Explanation:** - Moving the army from position 0 to position 3 captures 2 enemy forts, at 1 and 2. - Moving the army from position 8 to position 3 captures 4 enemy forts. Since 4 is the maximum number of enemy forts that can be captured, we return 4.

**\*\*Example 2:\*\***

**\*\*Input:\*\*** forts = [0,0,1,-1] **\*\*Output:\*\*** 0 **\*\*Explanation:\*\*** Since no enemy fort can be captured, 0 is returned.

**\*\*Constraints:\*\***

\*`1 <= forts.length <= 1000` \*`-1 <= forts[i] <= 1`

## Code Snippets

### C++:

```
class Solution {
public:
    int captureForts(vector<int>& forts) {

    }
};
```

### Java:

```
class Solution {
    public int captureForts(int[] forts) {

    }
}
```

### Python3:

```
class Solution:
    def captureForts(self, forts: List[int]) -> int:
```