Problem 1598: Crawler Log Folder

Problem Information

Difficulty: Easy
Acceptance Rate: 71.61%
Paid Only: No
Tags: Array, String, Stack

Problem Description

The Leetcode file system keeps a log each time some user performs a _change folder_ operation.

The operations are described below:

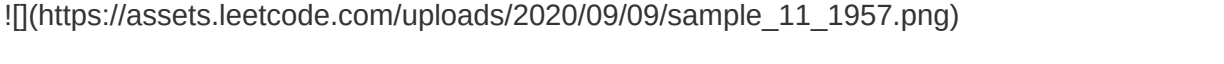
* `"../"` : Move to the parent folder of the current folder. (If you are already in the main folder, **remain in the same folder**). * `"./"` : Remain in the same folder. * `"x/"` : Move to the child folder named `x` (This folder is **guaranteed to always exist**).

You are given a list of strings `logs` where `logs[i]` is the operation performed by the user at the `ith` step.

The file system starts in the main folder, then the operations in `logs` are performed.

Return _the minimum number of operations needed to go back to the main folder after the change folder operations._

Example 1:



Input: logs = ["d1/","d2/","../","d21/","./"] **Output:** 2 **Explanation:** Use this change folder operation "../" 2 times and go back to the main folder.

Example 2:

Input: logs = ["d1/","d2/","./","d3/","../","d31/"] **Output:** 3

Example 3:

Input: logs = ["d1/","../","../","../"] **Output:** 0

Constraints:

* `1 <= logs.length <= 103` * `2 <= logs[i].length <= 10` * `logs[i]` contains lowercase English letters, digits, `'.'`, and `'/'`. * `logs[i]` follows the format described in the statement. * Folder names consist of lowercase English letters and digits.

Code Snippets

C++:

```
class Solution {
public:
int minOperations(vector<string>& logs) {

}
};
```

Java:

```
class Solution {
public int minOperations(String[] logs) {

}
}
```

Python3:

```
class Solution:
def minOperations(self, logs: List[str]) -> int:
```