# 2246. Longest Path With Different Adjacent Characters

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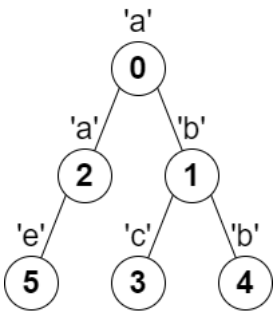
You are given a **tree** (i.e. a connected, undirected graph that has no cycles) **rooted** at node `0` consisting of `n` nodes numbered from `0` to `n - 1`. The tree is represented by a **0-indexed** array `parent` of size `n`, where `parent[i]` is the parent of node `i`. Since node `0` is the root, `parent[0] == -1`.

You are also given a string `s` of length `n`, where `s[i]` is the character assigned to node `i`.

Return *the length of the **longest path** in the tree such that no pair of **adjacent** nodes on the path have the same character assigned to them.*

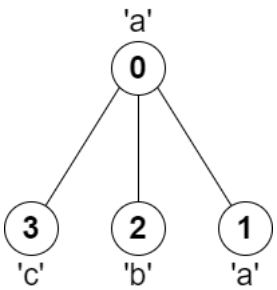
| | |
|---|---|
| User Accepted: | 1026 |
| User Tried: | 1672 |
| Total Accepted: | 1084 |
| Total Submissions: | 3605 |
| Difficulty: | Hard |

**Example 1:**




```
Input: parent = [-1,0,0,1,1,2], s = "abacbe"
Output: 3
Explanation: The longest path where each two adjacent nodes have different characters in the tree is the path: 0 -> 1 -> 3.
It can be proven that there is no longer path that satisfies the conditions.
```

**Example 2:**




```
Input: parent = [-1,0,0,0], s = "aabc"
Output: 3
Explanation: The longest path where each two adjacent nodes have different characters is the path: 2 -> 0 -> 3. The length
```

**Constraints:**

- `n == parent.length == s.length`
- `1 <= n <= 10^5`
- `0 <= parent[i] <= n - 1` for all `i >= 1`
- `parent[0] == -1`
- `parent` represents a valid tree.
- `s` consists of only lowercase English letters.

Discuss (https://leetcode.com/problems/longest-path-with-different-adjacent-characters/discuss)

Go

```
1 ▾ func longestPath(parent []int, s string) int {
2
3   }
```

Custom Testcase Use Example Testcases

Run Submit