⌐—(/) Explore(/explore/)   Problems(/problemset/all/)   Interview   Contest   Discuss(/discuss/)   LeetCode is hiring! Apply NOW. (https://leetcode.com/jobs/)   ☆ Premium   🔔   ♢ 0   (/problems
New   (/contest/)   Store   (/subscribe?ref=nb_npl)   order-sear

6073. Longest Path With Different Adjacent Characters

My Submissions (/contest/weekly-contest-289/problems/longest-path-with-different-adjacent-characters/submissions/)

Back to Contest (/contest/weekly-contest-289/)

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:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:
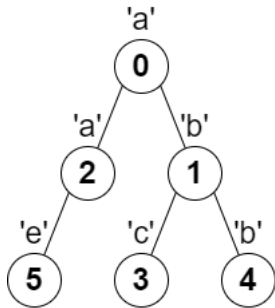

```
Input: parent = [−1,0,0,1,1,2], s = "abacbe"
Output: 3
Explanation: The longest path where each two adjacent nodes have different characters in the tree is the path: 0 -> 1 -> 3. The
It can be proven that there is no longer path that satisfies the conditions.
```
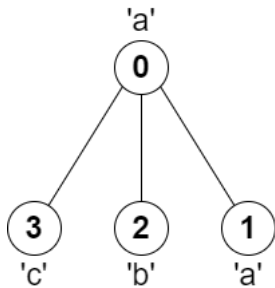
Example 2:


```
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 of t
```

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.

JavaScript   ▼   🅥   ⟳   ⚙

```
1 ▾ /**
2    * @param {number[]} parent
3    * @param {string} s
4    * @return {number}
5    */
6 ▾ var longestPath = function(parent, s) {
7
8   };
```

☐ **Custom Testcase**   (Use Example Testcases)

▶ Run   ☁ Submit

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

🇺🇸 United States (/region)