

Problem 3324: Find the Sequence of Strings Appeared on the Screen

Problem Information

Difficulty: **Medium**

Acceptance Rate: 79.92%

Paid Only: No

Tags: String, Simulation

Problem Description

You are given a string `target``.

Alice is going to type `target`` on her computer using a special keyboard that has **only two** keys:

* Key 1 appends the character `"a"` to the string on the screen. * Key 2 changes the **last** character of the string on the screen to its **next** character in the English alphabet. For example, `"c"` changes to `"d"` and `"z"` changes to `"a"`.

Note that initially there is an `_empty_` string `""`` on the screen, so she can **only** press key 1.

Return a list of `_all_` strings that appear on the screen as Alice types `target``, in the order they appear, using the **minimum** key presses.

Example 1:

Input: `target = "abc"`

Output: `["a","aa","ab","aba","abb","abc"]`

Explanation:

The sequence of key presses done by Alice are:

* Press key 1, and the string on the screen becomes `a`. * Press key 1, and the string on the screen becomes `aa`. * Press key 2, and the string on the screen becomes `ab`. * Press key 1, and the string on the screen becomes `aba`. * Press key 2, and the string on the screen becomes `abb`. * Press key 2, and the string on the screen becomes `abc`.

Example 2:

Input: target = "he"

Output: ["a","b","c","d","e","f","g","h","ha","hb","hc","hd","he"]

Constraints:

* 1 <= target.length <= 400 * target consists only of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    vector<string> stringSequence(string target) {

    }
};
```

Java:

```
class Solution {
    public List<String> stringSequence(String target) {

    }
}
```

Python3:

```
class Solution:
    def stringSequence(self, target: str) -> List[str]:
```