

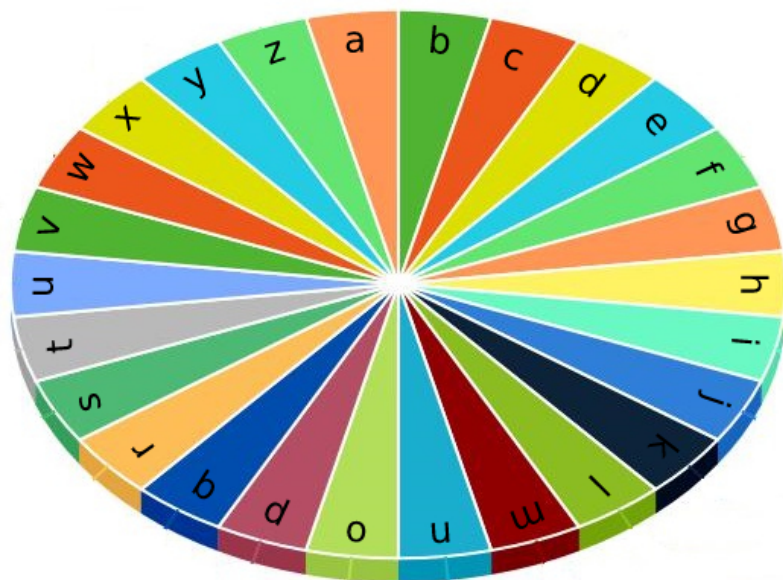


5834. Minimum Time to Type Word Using Special Typewriter

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There is a special typewriter with lowercase English letters 'a' to 'z' arranged in a **circle** with a **pointer**. A character can **only** be typed if the pointer is pointing to that character. The pointer is **initially** pointing to the character 'a'.



Each second, you may perform one of the following operations:

- Move the pointer one character **counterclockwise** or **clockwise**.
- Type the character the pointer is **currently** on.

Given a string `word`, return the **minimum** number of seconds to type out the characters in `word`.

Example 1:

Input: `word = "abc"`

Output: 5

Explanation:

The characters are printed as follows:

- Type the character 'a' in 1 second since the pointer is initially on 'a'.
- Move the pointer clockwise to 'b' in 1 second.
- Type the character 'b' in 1 second.
- Move the pointer clockwise to 'c' in 1 second.
- Type the character 'c' in 1 second.

Example 2:

| | |
|--------------------|------|
| User Accepted: | 18 |
| User Tried: | 30 |
| Total Accepted: | 17 |
| Total Submissions: | 30 |
| Difficulty: | Easy |

Input: word = "bza"**Output:** 7**Explanation:**

The characters are printed as follows:

- Move the pointer clockwise to 'b' in 1 second.
- Type the character 'b' in 1 second.
- Move the pointer counterclockwise to 'z' in 2 seconds.
- Type the character 'z' in 1 second.
- Move the pointer clockwise to 'a' in 1 second.
- Type the character 'a' in 1 second.

Example 3:**Input:** word = "zjpc"**Output:** 34**Explanation:**

The characters are printed as follows:

- Move the pointer counterclockwise to 'z' in 1 second.
- Type the character 'z' in 1 second.
- Move the pointer clockwise to 'j' in 10 seconds.
- Type the character 'j' in 1 second.
- Move the pointer clockwise to 'p' in 6 seconds.
- Type the character 'p' in 1 second.
- Move the pointer counterclockwise to 'c' in 13 seconds.
- Type the character 'c' in 1 second.

Constraints:

- $1 \leq \text{word.length} \leq 100$
- word consists of lowercase English letters.

JavaScript



```

1 const minTimeToType = (s) => {
2   let a = [];
3   for (let i = 0; i < 26; i++) a.push(String.fromCharCode(i + 97));
4   // pr(a)
5   let n = s.length;
6   let idx = a.indexOf(s[0]);
7   let move = Math.min(idx, 26 - idx);
8   // r(move);
9   for (let i = 1; i < n; i++) {
10    let cur = s[i], pre = s[i - 1];
11    let curI = a.indexOf(cur), preI = a.indexOf(pre);
12    let min = Math.min(curI, preI), max = Math.max(curI, preI);
13    let cw = max - min;
14    let ccw = (min - 0) + (26 - max);
15    move += Math.min(cw, ccw);
16    // pr(pre, cur, cw, ccw);
17  }
18  // pr(move);
19  return move + n;
20 };

```

☐ Custom Testcase☒ Use Example Testcases

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