

5873. Maximize the Confusion of an Exam

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A teacher is writing a test with n true/false questions, with 'T' denoting true and 'F' denoting false. He wants to confuse the students by **maximizing** the number of **consecutive** questions with the **same** answer (multiple trues or multiple falses in a row).

You are given a string `answerKey`, where `answerKey[i]` is the original answer to the i^{th} question. In addition, you are given an integer k , the maximum number of times you may perform the following operation:

- Change the answer key for any question to 'T' or 'F' (i.e., set `answerKey[i]` to 'T' or 'F').

Return the **maximum** number of consecutive 'T' s or 'F' s in the answer key after performing the operation at most k times.

User Accepted:	2
User Tried:	2
Total Accepted:	2
Total Submissions:	2
Difficulty:	Medium

Example 1:

Input: `answerKey = "TTFF"`, $k = 2$
Output: 4
Explanation: We can replace both the 'F's with 'T's to make `answerKey = "TTTT"`. There are four consecutive 'T's.

Example 2:

Input: `answerKey = "TFFT"`, $k = 1$
Output: 3
Explanation: We can replace the first 'T' with an 'F' to make `answerKey = "FFFT"`. Alternatively, we can replace the second 'T' with an 'F' to make `answerKey = "TFFF"`. In both cases, there are three consecutive 'F's.

Example 3:

Input: `answerKey = "TFTTFTTT"`, $k = 1$
Output: 5
Explanation: We can replace the first 'F' to make `answerKey = "TTTTFTTT"`. Alternatively, we can replace the second 'F' to make `answerKey = "TFTTTTTT"`. In both cases, there are five consecutive 'T's.

Constraints:

- $n == \text{answerKey.length}$
- $1 \leq n \leq 5 \times 10^4$
- `answerKey[i]` is either 'T' or 'F'
- $1 \leq k \leq n$

JavaScript

```
1 /**
2  * @param {string} answerKey
3  * @param {number} k
4  * @return {number}
5  */
6 var maxConsecutiveAnswers = function(answerKey, k) {
7
8  };
```