

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  $i^{\text{th}}$  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 const mx = Math.max;
2 const maxConsecutiveAnswers = (s, k) => {
3   let res1 = find(s, 'F', k);
4   let res2 = find(s, 'T', k);
5   return mx(res1, res2);
6 };
7
8 const find = (s, c, k) => {
9   let n = s.length, cnt = 0, res = 0;
10  for (let i = 0, j = i; i < n; i++) {
```

```
11  for (; j < n; j++) {  
12      if (s[j] == c) {  
13          } else if (cnt < k) {  
14              cnt++;  
15          } else {  
16              break;  
17          }  
18      }  
19      res = mx(res, j - i);  
20      if (s[i] != c) cnt--;  
21  }  
22  return res;  
23  };
```

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