Still Got the Palindromes

Problem

Submissions

Discussion Coming Soon

Türkçesi İçin Tıklayınız

Özgün wants to join a guitar competition to try himself. He thought that he can use the solos he has already written. However, he finds out that this competition has quite weird rules:

- Considering the notes of the solo as a sequence of letters, this sequence should be a palindrome. (s_i = s_{n+1-i}, for all i in the interval [1, n])
- i^{th} note and $(i+k)^{th}$ note must be the same. (s_i = s_{i+k} for all i in the interval [1, n-k], k will be given in input)

Competitors who play a solo that does not comply with these rules will be disqualified from the competition. Özgün doesn't want to be disqualified and believes his old solos are good enough. Find minimum number of changes to make him solos compatible.

Input Format

- The first line contains an integer q — the number of test cases

Each test contains:

- The first line contains two integers n and k — the length of a solo and the k value stated in explanation
- The second line contains one string of length n — notes of a solo

Output Format

For each test case, print the minimum number of changes.

Constraints

- $1 \leq q \leq 10^5$
- $1 \leq k < n \leq 2 \cdot 10^5$ ($0 \equiv n \mod k, \sum_{i=1}^{q} n_i \leq 2 \cdot 10^5$)
- It is guaranteed that the given string contains only uppercase letters A, B, C, D, E, F, G.

Sample Input 1

```
3
6 2
FGFFGF
36 9
BCAADADEDFDBGEBDGBGBBCAABBBBCDABDBCB
21 7
BCDEAEFGAEABAEABCDEFG
```

Sample Output 1

```
2
19
14
```

Explanation 1

For the first case, a corrected version of the given string with minimal changes is F**F**FF**F**F, so the answer is 2.

Memory Limit (kB) : 512000 **Time Limit (s) :** 1

C++ Bright

```cpp
//Brace your keyboard
//inzva community built algoleague for every algorithm enthusiast hungry for self-improvement and fri

#include <bits/stdc++.h>

using namespace std;

int main() {
// write your code here

    return 0;
}

```

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