



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

D. 1D Eraser

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You are given a strip of paper s that is n cells long. Each cell is either black or white. In an operation you can take any k consecutive cells and make them all white.

Find the minimum number of operations needed to remove all black cells.

Input

The first line contains a single integer t ($1 \le t \le 1000$) — the number of test cases.

The first line of each test case contains two integers n and k ($1 \le k \le n \le 2 \cdot 10^5$) — the length of the paper and the integer used in the operation.

The second line of each test case contains a string s of length n consisting of characters \mathbf{B} (representing a black cell) or \mathbf{W} (representing a white cell).

The sum of n over all test cases does not exceed $2 \cdot 10^5$.

Output

For each test case, output a single integer — the minimum number of operations needed to remove all black cells.

Example



Note

In the first test case you can perform the following operations:

 ${ t WBWWWB} o { t WWWWWB} o { t WWWWWW}$

In the second test case you can perform the following operations:

 $WWBWBWW \rightarrow WWWWWWW$

In the third test case you can perform the following operations:

 ${ t BWBWB} o { t BWWWW} o { t WWWWW}$

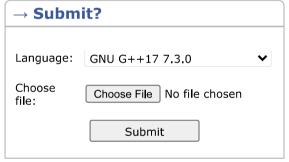
Codeforces Round 898 (Div. 4) Finished Practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest









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