



时间限制: C/C++/Rust/Pascal 2秒, 其他语言4秒
空间限制: C/C++/Rust/Pascal 512 M, 其他语言1024 M
Special Judge, 64bit IO Format: %lld

题目描述

Alarm! Fire is taking over the forest!

The shape of this forest is like a ring and can be divided into n parts. Part i ($1 \leq i \leq n$) is adjacent only to Part $((i - 2) \bmod n) + 1$ and Part $(i \bmod n) + 1$. If no action is taken and there is a fire in Part i , its adjacent parts will also be engulfed by flames in one minute.

As a responsible resident yourself, you have called the firefighters to come as soon as possible to put out this scary fire. However, it will take t_0 minutes before they can ever get here. Is there anything you could do?

There is! You decide to set a controllable fire by yourself on exactly one part of the forest to get a fire isolation zone immediately before the fire can ever get to it. In that way, the fire can never spread over this place afterwards.

But it's hard to make a wise decision: You need to choose the place of the fire isolation zone to guarantee more parts of the forest remain unburned. What is the maximum number of unburned parts you can get before firefighters come?

输入描述:

Each test contains multiple test cases. The first line contains the number of test cases T ($1 \leq T \leq 10^4$).

Each test case consists of 2 lines.

The first line contains two integers n, t_0 ($1 \leq n, t_0 \leq 10^5$), the number of parts in the forest and the time firefighters need to get to the forest.

The second line contains a string s ($|s| = n$) consisting of 0 and 1. The part i is currently on fire if and only if $s_i = 1$. It is guaranteed that there exists one i ($1 \leq i \leq n$) such that $s_i = 1$.

It is guaranteed that $\sum n$ over all test cases in one test will not exceed 5×10^5 .

输出描述:

For each test case, output one integer: the maximum number of unburned parts in the forest when the firefighters come.

示例1

C++ (clang++18)

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ACM模
请通过
入输出
出描述

运行结果 自测数据