## Problem A. Turn It Off

Input file:
standard input
Output file: standard output
Time limit: 1 second
Memory limit: $\quad 256$ megabytes

It's already 21:30 now, and it's time for BaoBao to go to bed. To ensure his sleeping quality, BaoBao decides to turn all the lights in his bedroom off.
There are $n$ lights, numbered from 1 to $n$, arranged in a row in BaoBao's bedroom. Each time BaoBao can select an integer $i$ and turn all the lights numbered from $i$ to ( $i+L-1$ ) (both inclusive) off, where $L$ is a predefined positive integer. Note that each time the value of $L$ must be the same.
Given the initial status of all the lights, please help BaoBao determine the smallest possible $L$ so that he can turn all the lights off within $k$ times.

## Input

There are multiple test cases. The first line of the input contains an integer $T$, indicating the number of test cases. For each test case:

The first line contains two integers $n$ and $k\left(1 \leq k \leq n \leq 2 \times 10^{5}\right)$.
The second line contains a string $s\left(|s|=n, s \in\left\{{ }^{6} 0\right.\right.$ ', ' 1 ' $\}$ ) indicating the initial status of the lights. Let $s_{i}$ be the $i$-th character in $s$, if $s_{i}=$ ' 1 ' then the $i$-th light is initially on, otherwise it's initially off. It's guaranteed that there is at least one ' 1 ' in $s$.
It's guaranteed that the sum of $n$ of all test cases will not exceed $2 \times 10^{6}$.

## Output

For each test case output one line containing one integer, indicating the smallest possible $L$.

## Example

| standard input |  | standard output |
| :--- | :--- | :--- |
| 2 | 3 |  |
| 104 | 1 |  |
| 0101011111 |  |  |
| 31 |  |  |
| 010 |  |  |

