## Difficult Constructive Problem

Input file: standard input
Output file: standard output

Time limit: 1 second

Memory limit: 1024 megabytes

Given a string  $s_1 s_2 \cdots s_n$  of length n where  $s_i \in \{\text{`0', '1', '?'}\}$  and an integer k, please fill out all the '?' with '0' or '1' such that the number of indices i satisfying  $1 \le i < n$  and  $s_i \ne s_{i+1}$  equals to k. Different '?' can be replaced with different characters.

To make this problem even more difficult, we ask you to find the answer with the smallest possible lexicographic order if it exists.

Recall that a string  $a_1 a_2 \cdots a_n$  of length n is lexicographically smaller than another string  $b_1 b_2 \cdots b_n$  of length n if there exists an integer k  $(1 \le k \le n)$  such that  $a_i = b_i$  for all  $1 \le i < k$  and  $a_k < b_k$ .

## 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 ( $1 \le n \le 10^5$ ,  $0 \le k < n$ ) indicating the length of the string and the required number of indices satisfying the condition.

The second line contains a string  $s_1 s_2, \dots s_n$   $(s_i \in \{`0', `1', `?'\})$ .

It's guaranteed that the sum of n of all test cases will not exceed  $10^6$ .

## Output

For each test case output one line. If the answer exists output the lexicographically smallest one (you need to output the whole given string after filling out all the '?' and make this string the lexicographically smallest); Otherwise output Impossible.

## Example

standard input	standard output
5	100100101
9 6	Impossible
1?010??01	100101101
9 5	Impossible
1?010??01	00000101
9 6	
100101101	
9 5	
100101101	
9 3	
???????1	