## Problem K. Kilk Not

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 512 mebibytes |

You are given a string $s$ consisting of zeros ( 0 ), ones (1), and question marks (?).
The number of question marks in $s$ is exactly $a+b$.
Replace $a$ question marks with zeros and $b$ question marks with ones to obtain a binary string $t$. Let $f(t)$ be the length of the longest substring of $t$ consisting of equal digits (e.g. 11111 or 0000).
Your task is to minimize $f(t)$.

## Input

Each test contains multiple test cases. The first line contains the number of test cases $t\left(1 \leq t \leq 10^{5}\right)$. Description of the test cases follows.

The first line of each test case contains three integers $n$, $a$, and $b$ ( $1 \leq n \leq 250000 ; 0 \leq a ; 0 \leq b)$.
The second line contains a string $s$ of length $n$ consisting of characters 0,1 , and ?. The number of question marks in $s$ is equal to $a+b$.
It is guaranteed that the sum of $n$ over all test cases does not exceed 250000 .

## Output

For each test case, print two lines.
In the first line, print a single integer $f(t)$, denoting the smallest possible length of the longest substring of $t$ consisting of equal digits.
In the second line, print any string $t$ achieving this value of $f(t)$ itself.

## Example

| standard input | standard output |
| :--- | :--- |
| 4 | 1 |
| $0 ? 01 ? ? 0$ | 0101010 |
| 1050 | 10 |
| $? 000 ? ? 0 ? 0 ?$ | 0000000000 |
| 11000 | 3 |
| 11001110100 | 11001110100 |
| 1524 | 4 |
| $? 1 ? 11 ? 1 ? ? 11100 ?$ | 110111101111001 |

