## - Bits Equalizer -

You are given two non-empty strings $S$ and $T$ of equal lengths. $S$ contains the characters ' 0 ', ' 1 ' and '?', whereas $T$ contains ' 0 ' and ' 1 ' only. Your task is to convert $S$ into $T$ in minimum number of moves. In each move, you can

1. change a ' 0 ' in $S$ to ' 1 '
2. change a '?' in $S$ to ' 0 ' or ' 1 '
3. swap any two characters in $S$

As an example, suppose $S=" 01 ? ? 00 "$ and $T=" 001010 "$. We can transform $S$ into $T$ in 3 moves:

- Initially $S=$ " $01 ? ? 00$ "
- Move 1 - change $S[2]$ to ' 1 '. $S$ becomes " $011 ? 00$ "
- Move 2 - change $S[3]$ to ' 0 '. $S$ becomes " 011000 "
- Move $3-\operatorname{swap} S[1]$ with $S[4] . \quad S$ becomes "001010"
- $S$ is now equal to $T$


## INPUT

The first line of input is an integer $C(C \leq 200)$ that indicates the number of test cases. Each case consists of two lines. The first line is the string $S$ consisting of ' 0 ', ' 1 ' and '?'. The second line is the string $T$ consisting of ' 0 ' and ' 1 '. The lengths of the strings won't be larger than 100 .

## OUTPUT

For each case, output the case number first followed by the minimum number of moves required to convert $S$ into $T$. If the transition is impossible, output -1 instead.

```
INPUT EXAMPLE
3
01??00
001010
M
Case 2: 1
Case 3: -1
01
10
110001
0 0 0 0 0 0
```

