Digit Frequency

For a given number n, find the number of times the digit k occurs in the number.

Input:

The first line contains the number of test cases, t. 1<=t<=10000. The second line contains two numbers n and k, 0<=n<=10^{18} and 0<=k<10.

Output:

Output the answer as an integer in a new line for each test case.

Example:

Input:

1

122342 2

Output:

3

Notes:

In the above example n=122342 and k=2. 2 occurs 3 times in the given number. Hence, the output is 3.