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Rules & Regulations

Problem: Occurrences in a Range

Given a range of numbers, find specific patterns in them and print the count of numbers that match the pattern. Patterns are of 3 type viz. Alternate, Consecutive and Wildcard. Each pattern is described as below

Alternate: - The verb denoting Alternate is A. As the name suggests, alternate pattern requires detection of numbers which have specified digit in alternate place.

Consecutive: - The verb denoting Consecutive is C. As the name suggests, consecutive pattern requires detection of numbers which has specified digit in required frequency appearing in consecutive manner.

Wildcard: - The verb denoting Wildcard is W. As the name suggests, wildcard pattern requires detection of numbers in which 'W' character can be replaced by any digit.

Input Format:

- 1. First line contains total number of test cases, denoted by N
- 2. Second line contains a range within which to detect the patterns. Range is provided in form of 2 numbers, viz. lower bound and upper bound, both inclusive, delimited by space.
- 3. Next N lines contain pattern queries where patterns are as described above. Input format of each pattern is described as below
 - a. A1 denotes, find all numbers in the range which have digit 1 in alternate places
 - b. C21 denotes, find all numbers in the range where digit 1 appears consecutively at least twice. Formally, this pattern follows grammar <C><frequency><digit>
 - c. 1W denotes, find all numbers in the range where 1 precedes any other digit. Read constraints section carefully before implementing this pattern.

Output Format:

For each test case, print count of numbers in the range matching the corresponding pattern. Print each count on a separate line.

Constraints:

- 1. When solving Wildcard query, the pattern always starts with a digit
- 2. W character in wildcard query can be substituted by exactly one digit

Sample Input and Output

SNo.	Input	Output	Output				
1	5 2 200 A1 C22 9W 1W2 1WW	10 2 10 10 10					

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

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Submit Answer

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