DIGIT DP

LOJ 1140 – How Many Zeroes?

Jimmy writes down the decimal representations of all natural numbers between and including **m** and **n, (m ≤ n)**. How many zeroes will he write down?

Input

Input starts with an integer **T (≤ 11000)**, denoting the number of test cases.

Each case contains two unsigned 32-bit integers **m** and **n, (m ≤ n)**.

Output

For each case, print the case number and the number of zeroes written down by Jimmy.

Sample Input	Output for Sample Input
5 10 11 100 200 0 500 1234567890 2345678901 0 4294967295	Case 1: 1 Case 2: 22 Case 3: 92 Case 4: 987654304 Case 5: 3825876150