## 1276 - Very Lucky Numbers

According to some theory 4 and 7 are lucky digits, and all the other digits are not lucky. A lucky number is a number that contains only lucky digits in decimal notation. A very lucky number is a number that can be expressed as a product of several lucky numbers. A lucky number by itself is considered to be very lucky. For example, numbers 47, 49, 112 are very lucky.

Your task is to calculate the number of very lucky numbers that are not less than **A** and not greater than **B**.

## Input

Input starts with an integer  $T \leq 8000$ , denoting the number of test cases.

Each case starts with a line containing two integers A and B ( $1 \le A \le B \le 10^{12}$ ).

## **Output**

For each case, print the case number and the result.

Sample Input	Output for Sample Input
4	Case 1: 0
1 2	Case 2: 0
88 99	Case 3: 1
112 112	Case 4: 10
1 100	

## Note

Very lucky numbers for the last sample input are 4, 7, 16, 28, 44, 47, 49, 64, 74 and 77.