# 110501 Primary Arithmetic

Children are taught to add multi-digit numbers from right to left, one digit at a time. Many find the "carry." peration, where a 1 is carried from one digit position to the next, to be a significant challenge. Your job is to count the number of carry operations for each of a set of addition problems so that educators may assess their difficulty.

#### Input

Each line of input contains two unsigned integers less than 10 digits. The last line of input contains "0  $\,$  0" .

### Output

For each line of input except the last, compute the number of carry operations that result from adding the two numbers and print them in the format shown below.

## Sample Input

123 456

555 555

123 594

0 0

### Sample Output

No carry operation. 3 carry operations. 1 carry operation.