#### 5.9.1 Primary Arithmetic

#### PC/UVa IDs: 110501/10035, Popularity: A, Success rate: average Level: 1

Children are taught to add multi-digit numbers from right to left, one digit at a time. Many find the "carry" operation, 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.