Problem G

Primary Arithmetic

Time limit: 1 second

Memory limit: 1024 megabytes

Problem Description

Children are taught to add multi-digit numbers from right-to-left one digit at a time. Many find the "carry" operation - in which a 1 is carried from one digit position to be added 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.
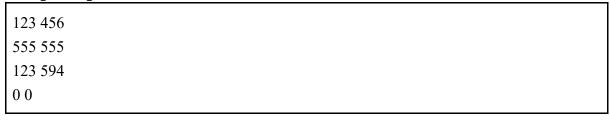
Input Format

Each line of input contains two unsigned integers less than 10 digits. The last line of input contains '0 0'.

Output Format

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

Sample Input 1

```
123 456
555 555
123 594
0 0
```

Sample Output 1

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