#### 1595 - Multiples of Nine

## Description

A good way to determine if N is an integer multiple of 9 is calculating the sum S of its digits. If S is a multiple of 9 then so is N, to determine if S is a multiple of 9 performs the same task. The number of times this procedure is performed to determine if N is a multiple of 9 is known as the 9-degree of the number N. You must determine if a positive integer multiple of 9 and if so the 9-degree.

### Input specification

The input consists of a series of lines, each line contains a positive integer that could have up to 1000 digits. The line containing the number 0 indicates the end of the entry.

### Output specification

For the standard output for each input number must be printed in the format shown in the example if the number is or is not a multiple of 9, and if so should give the value of your 9-degree.

# Sample input

# Sample output

# Hint(s)

#### Caribbean Online Judge

Source UCI Java Cup Edition

Added by ymondelo20

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Time limit (ms) 1000

Test limit (ms) 1000

Memory limit (kb) 130000

Output limit (mb) 64

Size limit (bytes) 30000

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