挑战 >_ 测试案例输出

编程挑战说明:

Credits: *Programming Challenges by Steven S. Skiena and Miguel A. Revilla*

The problem is as follows: choose a number, reverse its digits and add it to the original. If the sum contains odd digits, repeat this procedure. eg.

168 (initial number) + 681 (reverse of initial number) = 1029

1029 + 9201 = 10230

10230 + 03201 = 13431

13431 + 13431 = 26862 (no odd digits)

In this particular case the first result with no odd digits (26862) appeared after the 4th addition. This method leads to numbers without odd digits in a few steps for many integers.

输入:

Your program should read lines of text from standard input. Each line will contain an integer n < 4,294,967,295. Assume each line of input will always have an answer and that it is computable with less than 1000 iterations (additions).

输出:

For each line of input, generate a line of output which is the number of iterations (additions) to compute first result without odd digits and the result. They should be on one line and separated by a single space character.

Test 1

测试输入

```
168
```

预期输出

```
4 26862
```