

## 110505 A Multiplication Game

Stan and Ollie play the game of multiplication by multiplying an integer  $p$  by one of the numbers 2 to 9. Stan always starts with  $p = 1$ , does his multiplication, then Ollie multiplies the number, then Stan, and so on. Before a game starts, they draw an integer  $1 < n < 4,294,967,295$  and the winner is whoever reaches  $p \geq n$  first.

### Input

Each input line contains a single integer  $n$ .

### Output

For each line of input, output one line – either

Stan wins.

or

Ollie wins.

assuming that both of them play perfectly.

### Sample Input

```
162
17
34012226
```

### Sample Output

```
Stan wins.
Ollie wins.
Stan wins.
```