

## 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  $1 < n < 4294967295$  and the winner is who first reaches  $p \geq n$ .

### Input and Output

Each line of input contains one integer number  $n$ . 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.
```

---

*Miguel Revilla 2002-06-15*