## **Problem E: 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 >= n. 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

## **Output for sample input**

Stan wins. Ollie wins. Stan wins.