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.

