## 10404 Bachet's Game

Bachet's game is probably known to all but probably not by this name. Initially there are $n$ stones on the table. There are two players Stan and Ollie, who move alternately. Stan always starts. The legal moves consist in removing at least one but not more than $k$ stones from the
 table. The winner is the one to take the last stone.

Here we consider a variation of this game. The number of stones that can be removed in a single move must be a member of a certain set of $m$ numbers. Among the $m$ numbers there is always 1 and thus the game never stalls.

## Input

The input consists of a number of lines. Each line describes one game by a sequence of positive numbers. The first number is $n \leq 1000000$ the number of stones on the table; the second number is $m \leq 10$ giving the number of numbers that follow; the last $m$ numbers on the line specify how many stones can be removed from the table in a single move.

## Output

For each line of input, output one line saying either 'Stan wins' or 'Ollie wins' assuming that both of them play perfectly.

## Sample Input

```
203 1 3 8
213138
22314 8
2331 3 8
100000010123 38 117 7 5 4 8 3 13
999996 10 1 23 38 11 7 5 4 8 3 13
```


## Sample Output

Stan wins
Stan wins
Ollie wins
Stan wins
Stan wins
Ollie wins

