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The Virtual Learning Environment for Computer Programming

## Simple game?

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Petr and Tourist are playing an interesting game called *Simple*. Initially there are *n* tokens, which are taken away by alternating turns with the following rules:

- 1. Petr plays first, and he cannot take away all the tokens in the first turn.
- 2. In each of the remaining turns the player cannot take away more than 2x tokens, where x is the number of tokens removed in the last turn.
- 3. The player that manages to take away the last token wins.

Since the players of this game are bad programmers, they need your help. Given *n*, who will win the game assuming perfect play?

### Input

Input consists of several cases, each with an *n* between 2 and  $10^6$ .

### Output

For every *n*, print the name of the winner.

#### Sample input

2	
4	
8	
16	

### Sample output

Tourist	
Petr	
Tourist	
Petr	

### **Problem information**

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