

# Game of Stones

Two players (numbered **1** and **2**) are playing a game with  $n$  stones. Player **1** always plays first, and the two players move in alternating turns. The game's rules are as follows:

- In a single move, a player can remove either **2**, **3**, or **5** stones from the game board.
- If a player is unable to make a move, that player loses the game.

Given the number of stones, find and print the name of the winner (i.e., **First** or **Second**) on a new line. Each player plays optimally, meaning they will not make a move that causes them to lose the game if some better, winning move exists.

## Input Format

The first line contains an integer,  $T$ , denoting the number of test cases.

Each of the  $T$  subsequent lines contains a single integer,  $n$ , denoting the number of stones in a test case.

## Constraints

- $1 \leq T \leq 100$
- $1 \leq n \leq 100$

## Output Format

On a new line for each test case, print **First** if the first player is the winner; otherwise, print **Second**.

## Sample Input

```
8
1
2
3
4
5
6
7
10
```

## Sample Output

```
Second
First
First
First
First
First
Second
First
```

## Explanation

In the sample, we have  $T = 8$  testcases.

We'll refer to our two players as  $P_1$  and  $P_2$ .

If  $n = 1$ ,  $P_1$  can't make any moves and loses the game (i.e., the  $P_2$  wins and we print **Second** on a new line).

If  $n = 2$ ,  $P_1$  removes **2** stones in their first move and wins the game, so we print **First** on a new line.

If  $n = 3$ ,  $P_1$  removes **2** stones in their first move, leaving **1** stone on the board. Because  $P_2$  is left with no available moves,  $P_1$  wins and we print **First** on a new line.

If  $n = 4$ ,  $P_1$  removes 3 stones in their first move, leaving 1 stone on the board. Because  $P_2$  has no available moves,  $P_1$  wins and we print **First** on a new line.

If  $n = 5$ ,  $P_1$  removes all 5 stones from the game board. Because  $P_2$  is left with no available moves,  $P_1$  wins and we print **First** on a new line.

If  $n = 6$ ,  $P_1$  removes 5 stones in their first move, leaving 1 stone on the board. Because  $P_2$  has no available moves,  $P_1$  wins and we print **First** on a new line.

If  $n = 7$ ,  $P_1$  can make any of the following three moves:

1. Remove 2 stones, leaving 5 stones on the board.  $P_2$  then removes 5 stones. Because  $P_1$  has no available moves,  $P_2$  wins.
2. Remove 3 stones, leaving 4 stones on the board.  $P_2$  then removes 3 stones, leaving 1 stone left on the board. Because  $P_1$  has no available moves,  $P_2$  wins.
3. Remove 5 stones, leaving 2 stones on the board.  $P_2$  then removes the 2 remaining stones. Because  $P_1$  has no available moves,  $P_2$  wins.

Because all possible moves result in  $P_2$  winning, we print **Second** on a new line.

If  $n = 10$ ,  $P_1$  can remove either 2 or 3 stones to win the game, so we print **First** on a new line. Recall that each player moves optimally, so  $P_1$  will not remove 5 stones because doing so would cause  $P_1$  to lose the game.