Badge Progress (Details)

Points: 126 Rank: 270332

A Chessboard Game 🔖

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Two players are playing a game on a 15×15 chessboard. The rules of the game are as follows:

- The game starts with a single coin located at some x, y coordinate. The coordinate of the upper left cell is $(1, 1)$, and the coordinate of the lower right cell is $(15, 15)$.

- In each move, a player must move the coin from cell (x, y) to one of the following locations:

  1. $(x - 2, y + 1)$
  2. $(x - 2, y - 1)$
  3. $(x + 1, y - 2)$
  4. $(x - 1, y - 2)$

  Note: The coin must remain inside the confines of the board.

- The players move in alternating turns. The first player who is unable to make a move loses the game.

The figure below shows all four possible moves:
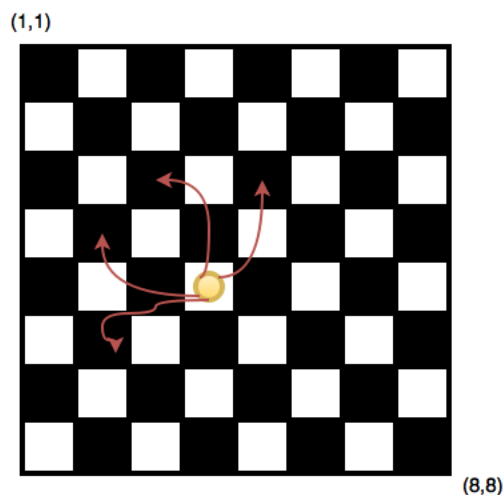
Note: While the figure shows a 8×8 board, this game is played on a 15×15 board.

Given the initial coordinate of the coin, determine which player will win the game. Assume both players always move optimally and the first player always moves first.

Input Format

The first line contains an integer, T, denoting the number of test cases.
Each of the T subsequent lines contains 2 space-separated integers describing the respective x and y values of the coin's coordinate.

Constraints

- $1 \leq T \leq 15 \times 15$

- $1 \leq x_i, y_i \leq 15$

Output Format

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

Sample Input

```
3
5 2
5 3
8 8
```

Sample Output

```
Second
First
First
```

Current Buffer (saved locally, editable)

Java 7

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
    }
}
```

Line: 1 Col: 1

Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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