Con game, again

Description

Eddy loves to play con game. The game is really con.

What? You say you've no idea what con game is?

Consider a board with N rows. Each row may have different length. The length of first row is x_1. The length of other rows can be calculated by previous one. Here is a simple function implemented in C.

```
int f(int i) {
  if (i <= 0 || i > N) {
    cerr << "Out of index!" << endl;
    exit(1);
  }
  if (i == 1) return x[i];
  return (A * f(i-1) + B) % M + 2;
}
```

Each row contains two stone on it. At the beginning, one is on the leftest position and another one is on the rightest position. The first player can only move the left one, and the second player can only move the right one. The player chooses a row and moves the stone in the same row, but not cross the other stone. The player who can not move will be a loser.

Here's an example:

Figure 1: Sample1

For first player, he could move the left one to $1, 3, 4, 5$ positions. For second player, he could move the right one to $3, 4, 5, 7, 8$ positions.

Input

The first line contains an integer T indicating the total number of test cases. Each test case contains one line with five integers N, M, A, B, x_1.

- $1 \leq T \leq 1000$
- $1 \leq N \leq 10^{15}$
- $1 \leq M, A, B \leq 10^5$
- $2 \leq x_1 \leq 10^5$
- There are at most 100 test cases with $M > 100$.

Output

For each test case, output "First" in a line if the first player wins the given game. Otherwise, print "Second" in a line.

Sample Input

```
3
1 100 123 12345 10
2 100 123 12345 10
99968 100 123 123 89
```

Sample Output

```
First
First
Second
```