Baby Game Revisited

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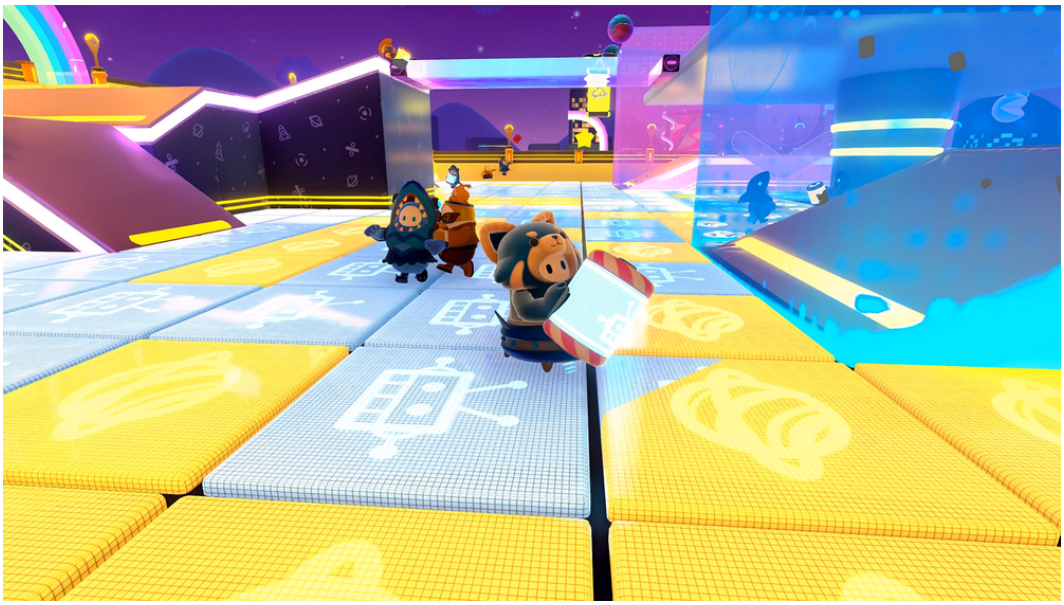
1 Problem Statement



Fall Guys: Ultimate Knockout Power Trip Level

This challenge is based on **Baby Game**. Please solve that challenge first.

I think the previous game is way too easy to determine the winner, so I made a new rule! Again, players take turns moving, with *Caring Koala* going first.

1. Players start at different positions on the grid.

2. In each round, one player makes a move. *Caring Koala* can move exactly **one** square in one of the four directions: up, down, left, or right. On the other hand, *Red Panda* can move **one** or **two** squares. Moving out of the battleground is forbidden.

3. A player wins the game by moving their character to the square occupied by the opponent's character.

4. Both players are highly skilled: when they can win, they will win as soon as possible. When they can only lose, they will try to delay their loss as long as possible.

Your task is to determine who will win the game and after how many rounds, given n and their initial positions.

2 Input

The first line of input contains an integer n ($2 \leq n \leq 25$), the battleground size.

The next line contains 4 space separated integers, $x1, y2, x2, y2$ ($1 \leq x_i, y_i \leq n$), where *Caring Koala* starts from $(x1, y1)$ and *Red Panda* from $(x2, y2)$. They are guaranteed to be different.

3 Output

Output is a line consisting of the winner name and round number. Remember it is case-sensitive.

4 Sample

Sample Input	Sample Output
`2` `1 2 2 1`	`Red Panda 2`

5 Explanation

No matter how *Caring Koala* moves, *Red Panda* will win by one move, so two rounds in total.