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/*
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Critter Project
Lion
*/

import java.awt.Color;
import java.util.Random;

public class Lion extends Critter {

    private Color color; // stores the current color of the lion
    private int moves; // stores the number of moves made by the lion

    // Constructor
    public Lion() {
        moves = 0; // initialize moves to 0
        pickColor(); // choose an initial color
    }

    // Method to pick a random color (Red, Green, Blue)
    public void pickColor() {
        Random random = new Random(); // create a new random number generator
        int choice = random.nextInt(3); // choose a random number between 0 and 2
        // depending on the random number, pick a color
        switch (choice) {
            case 0:
                color = Color.RED;
                break;
            case 1:
                color = Color.GREEN;
                break;
            case 2:
                color = Color.BLUE;
                break;
        }
    }

    // Method to get the current color of the lion
    public Color getColor() {
        // if it's time to switch colors (every three moves)
        if (moves % 3 == 0) {
            pickColor(); // pick a new color
        }
        return color; // return the current color
    }

    // Method to represent the lion as a string
    public String toString() {
        return "L";
    }

    // Method to determine the lion's next move
    public Action getMove(CritterInfo info) {
        moves++; // increase the count of moves

        // if there's an enemy in front, infect it
        if (info.getFront() == Neighbor.OTHER) {

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        return Action.INFECT;
    }
    // if there's a wall in front or to the right, turn left
    else if (info.getFront() == Neighbor.WALL || info.getRight() ==
Neighbor.WALL) {
        return Action.LEFT;
    }
    // if there's a fellow Lion in front, turn right
    else if (info.getFront() == Neighbor.SAME) {
        return Action.RIGHT;
    }
    // otherwise, hop
    else {
        return Action.HOP;
    }
}
}

```