```
public class Rover {
    public Pedal rightPedal = new Pedal( leftOrRight: "R");
    public Pedal leftPedal = new Pedal( leftOrRight: "L");
         accelerate forward
          deaccelerate forward
   public Rover(int state) {
        this.state = state;
    * @param newState new state of rover.
    public void setState(int newState) {
        if (-3 > newState || newState > 3) {
            throw new IllegalArgumentException("New state must be between -3 and 3.");
```

```
//-1 deaccelerate backward
//-2 accelerate backward
//-3 constant backward speed
public Rover(int state) {
    this.state = state;
 * @param newState new state of rover.
public void setState(int newState) {
    if (-3 > newState || newState > 3) {
        throw new IllegalArgumentException("New state must be between -3 and 3.");
    state = newState;
 * @return state of rover.
public String printState() {
        case (1) -> "deaccelerate forward";
```

```
public class Pedal {
   String leftOrRight;
     * @param leftOrRight the placement.
    public Pedal(String leftOrRight) {
        if (leftOrRight == null || !(leftOrRight.equals("L") || leftOrRight.equals("R"))) {
            throw new IllegalArgumentException("The String must be R or L");
        this.leftOrRight = leftOrRight;
     * @param numberOfPresses number of presses on pedal.
     * @param state current state of rover.
     * @return new state of rover.
    public int press(int numberOfPresses, int state) {
        if (numberOfPresses > 2 || numberOfPresses == 0) {
            throw new IllegalArgumentException("Invalid number of presses.");
        if (numberOfPresses == 1 && state == 0 && leftOrRight.equals("L")) {
        } else if (numberOfPresses == 2 && leftOrRight.equals("R")) {
            if (state == 2) {
           } else if (state == -2) {
```

```
} else if (numberOfPresses == 2 && leftOrRight.equals("R")) {
        if (state == 2) {
        } else if (state == -2) {
        throw new IllegalArgumentException("Your number of presses does nothing.");
    System.out.print("Your number of presses does nothing. ");
    return state;
 * Oparam numberOfSeconds number of seconds the pedal is pressed.
 * @param state current state of rover.
 * @return new state of rover.
public int hold(int numberOfSeconds, int state) {
    if (numberOfSeconds != 5) {
        throw new IllegalArgumentException("The number of seconds must be 5.");
    if (numberOfSeconds == 5) {
        if (state == 0 && leftOrRight.equals("L")) {
        } else if ((state == -1 || state == -2) && leftOrRight.equals("R")) {
        } else if ((state == 1 || state == 2) && leftOrRight.equals("R")) {
            throw new IllegalArgumentException("Your number of seconds does nothing.");
    System.out.print("Your number of seconds does nothing. ");
    return state;
```