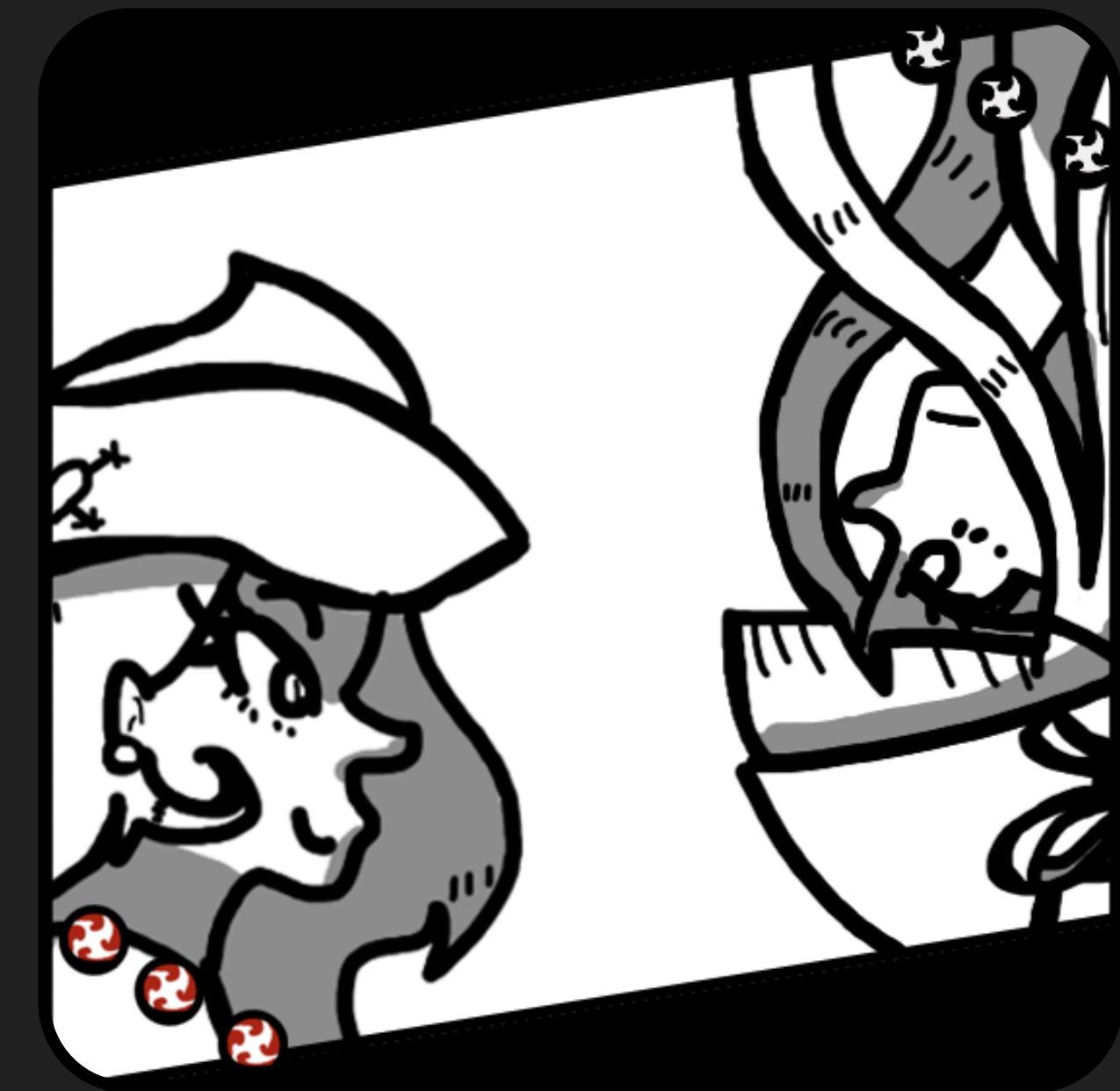
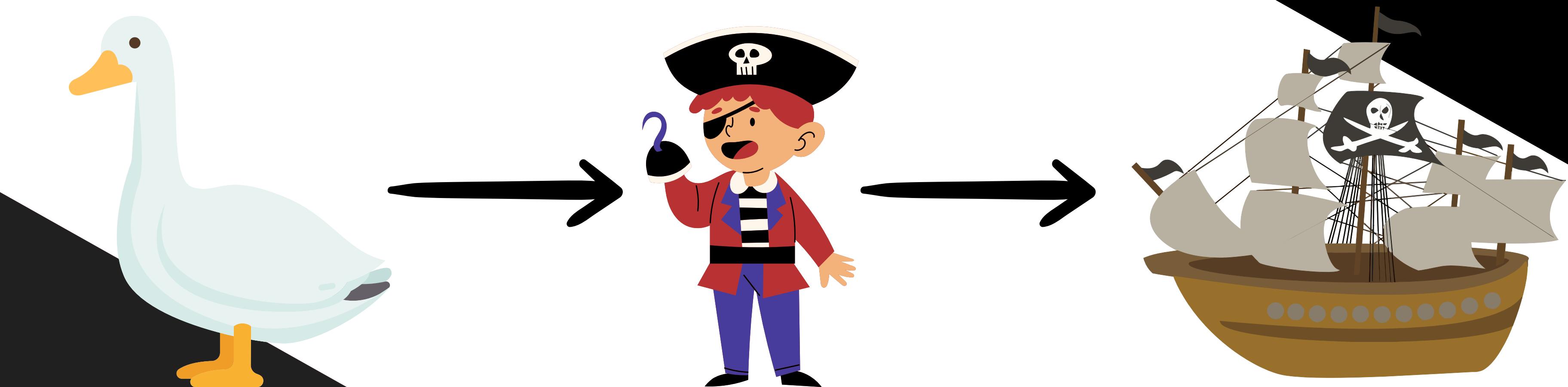


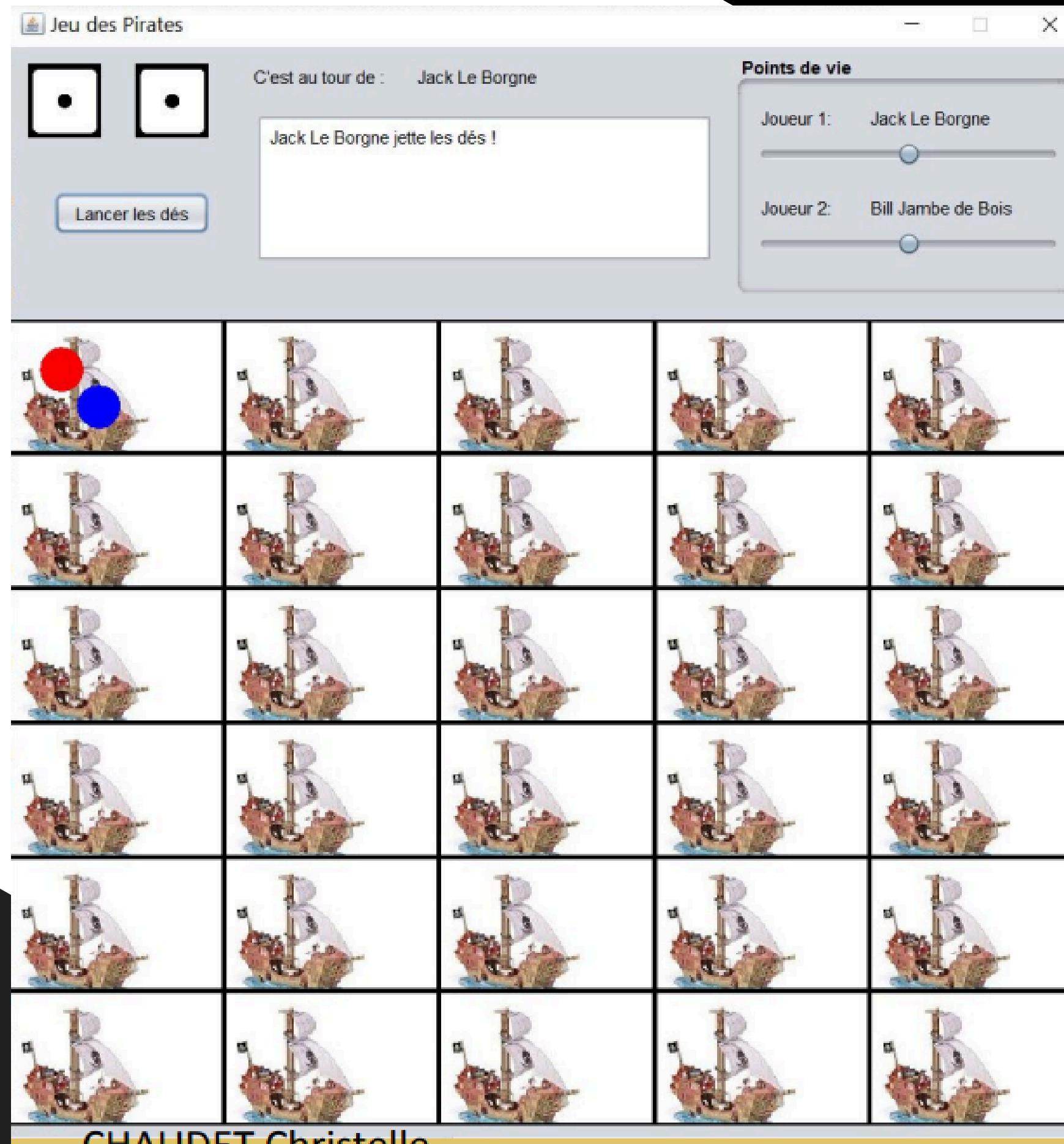


# PROJET: LES PIRATES

BEN JAAFAR CHEDLI / RIBEIRO DUARTE  
BAGDATLI OKTAY / MUNOS ENZO  
GUICHARD LUCAS / ESSENGUE MATIS







Dés Animées



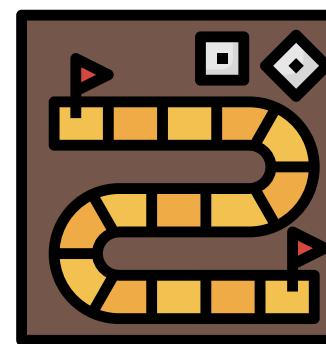
Autre visuel de point de vie



Numéro des cases

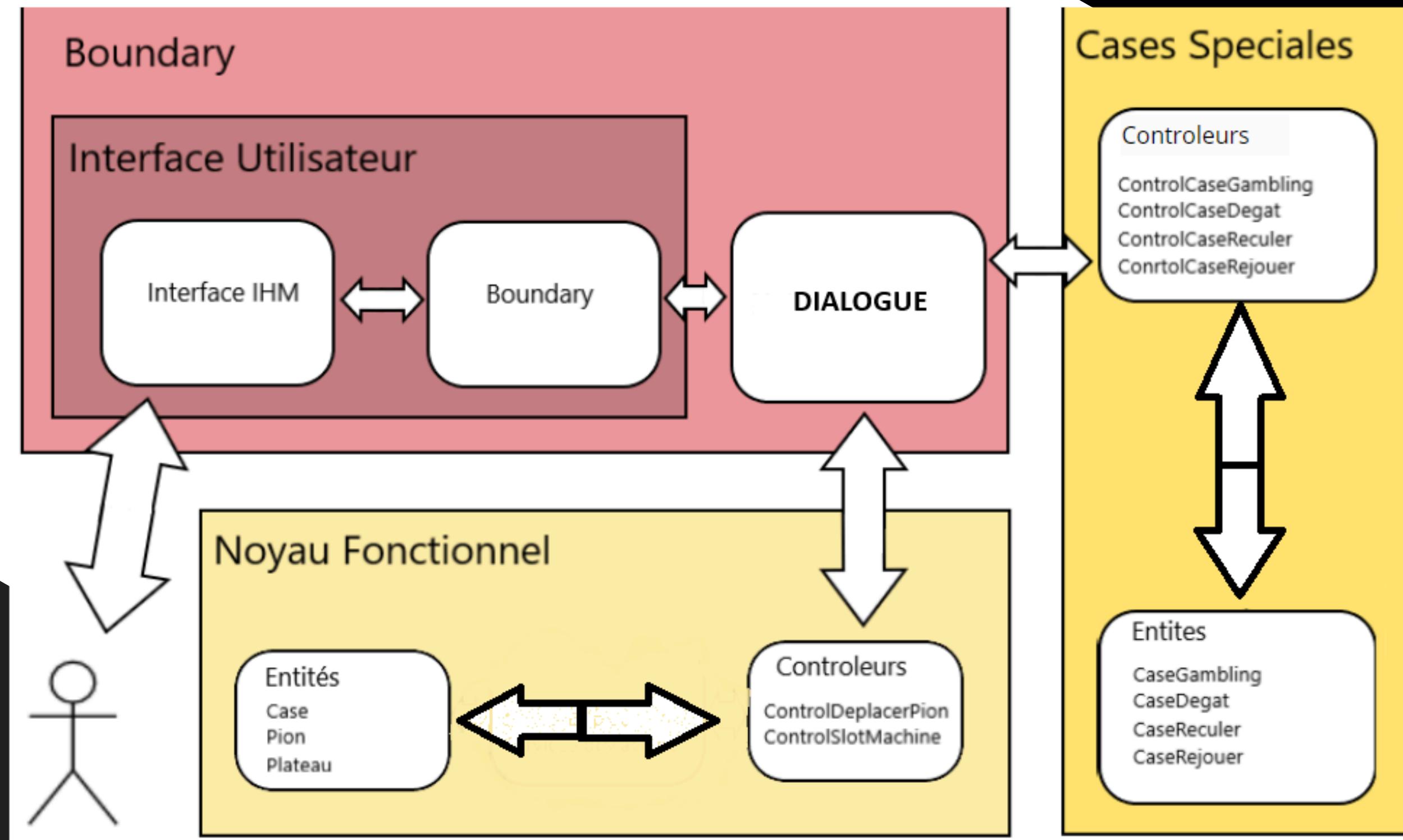


Distinction case départ et arrivée

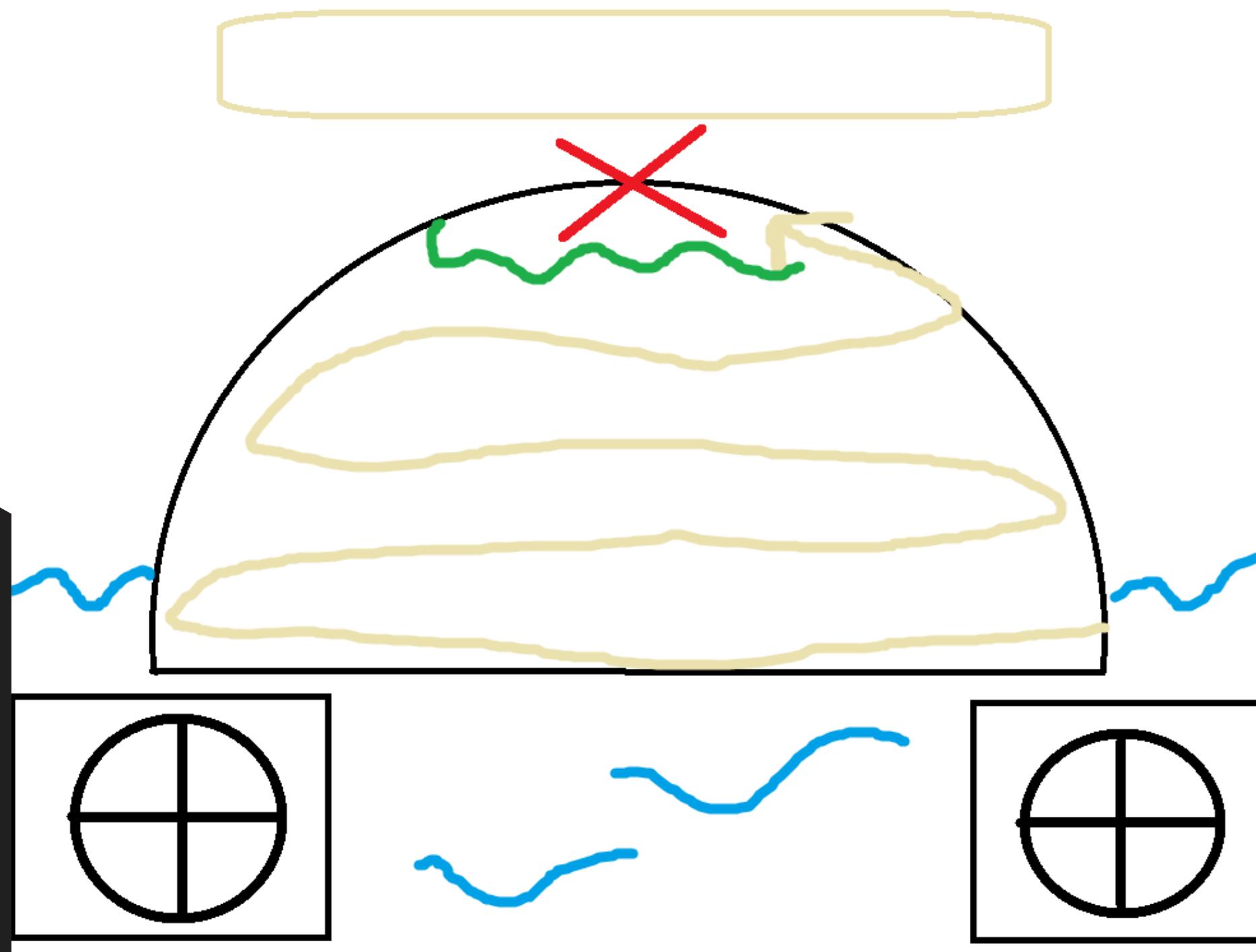


Des Bateaux ???





Mockup ecran premières idées

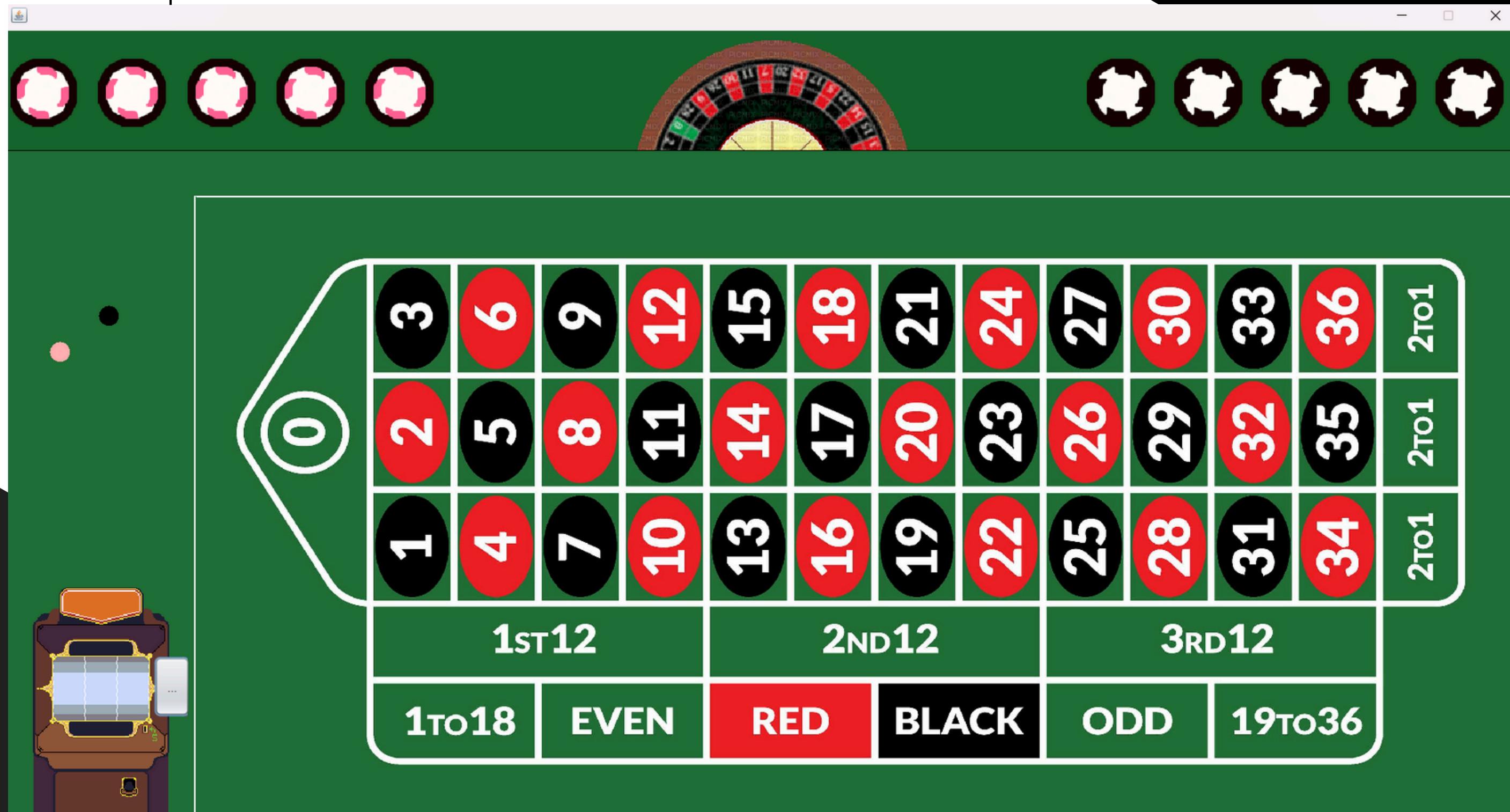


Visuelle Animal Crossing



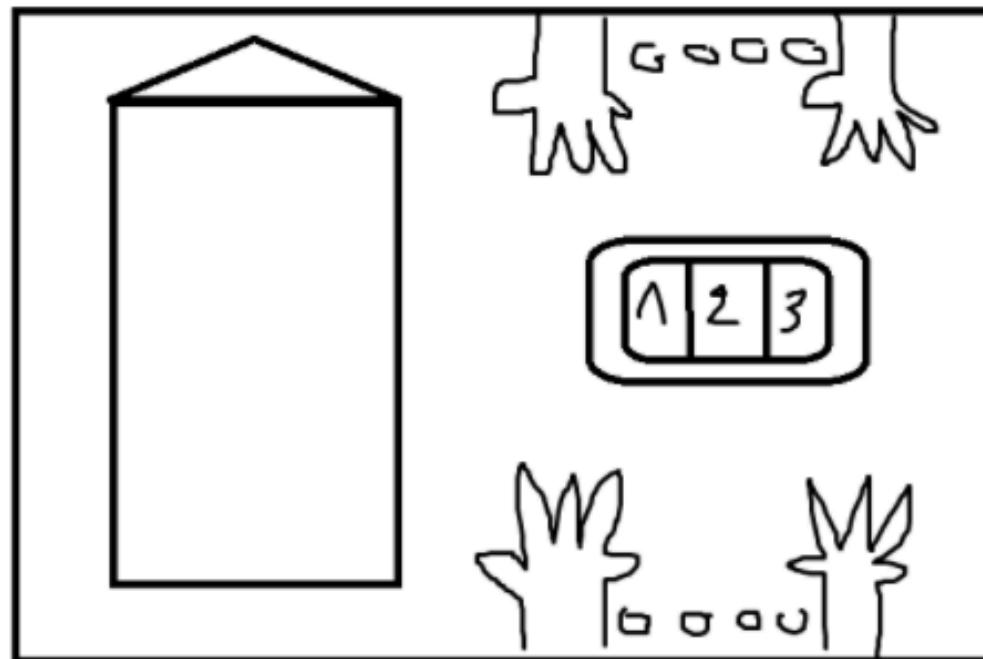
Visuelle Croque-Carotte

Première implémentation

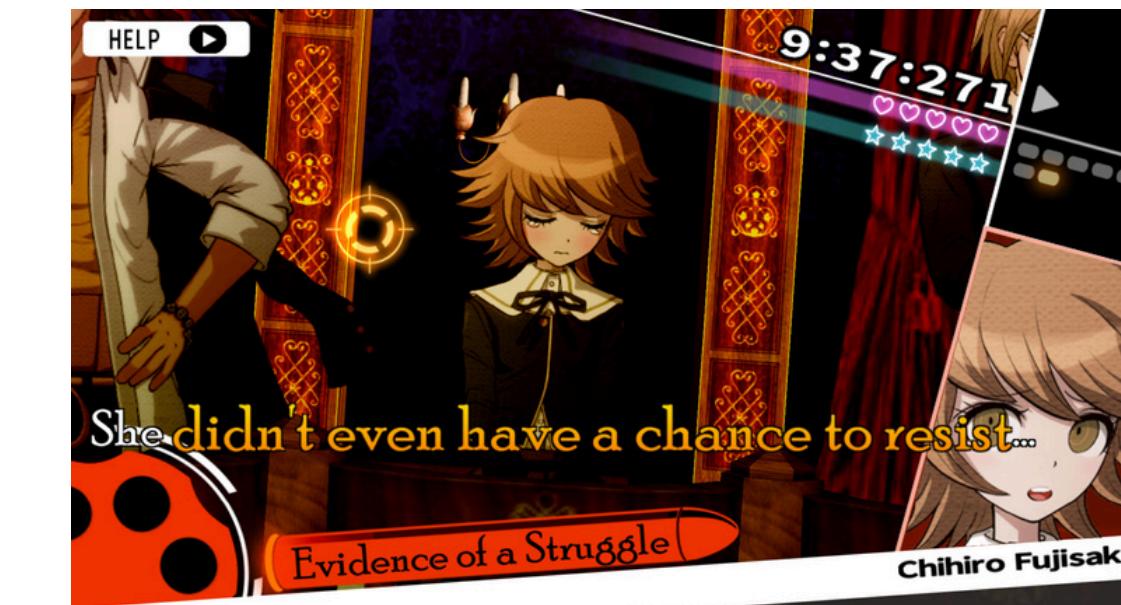
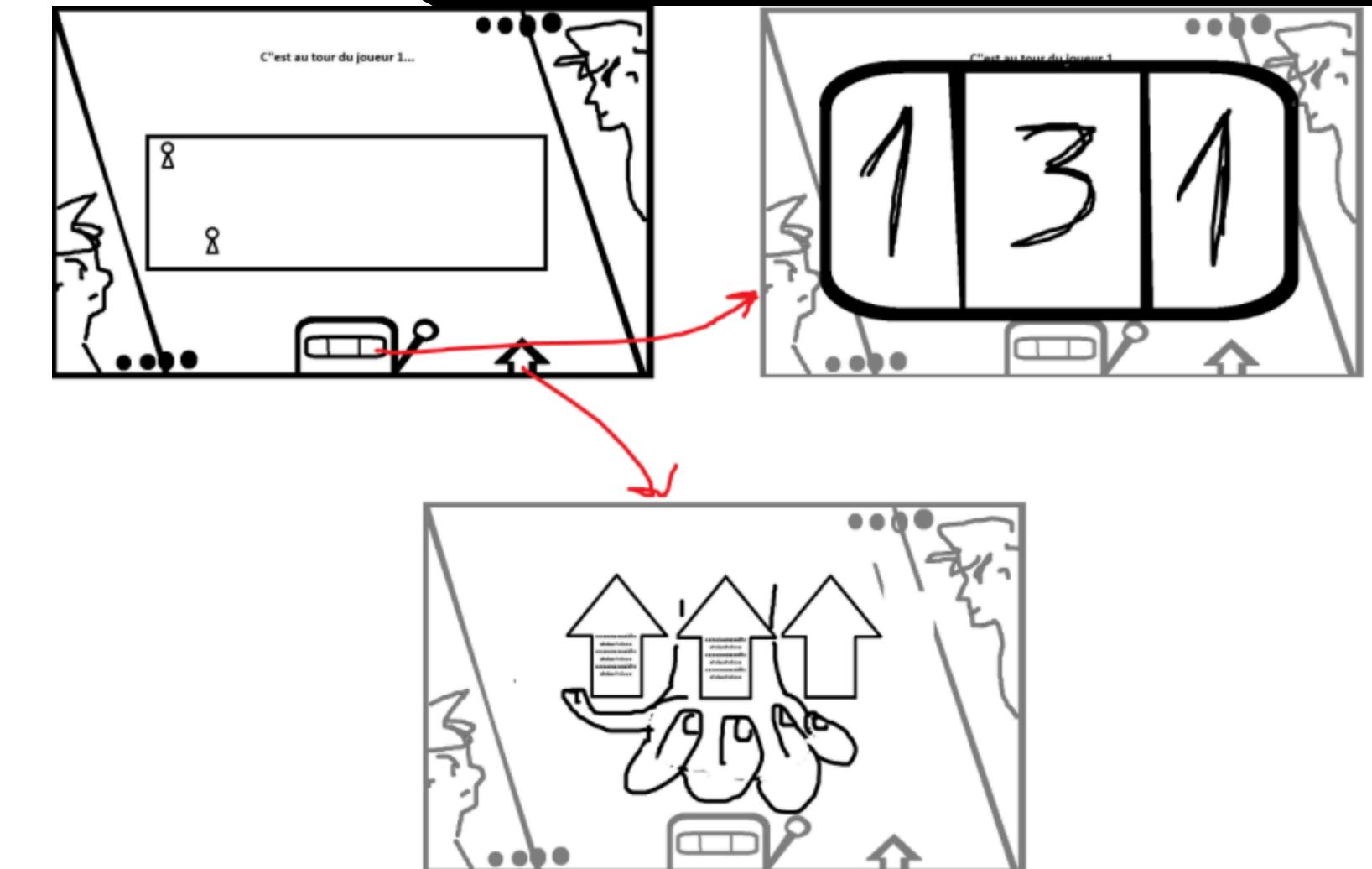
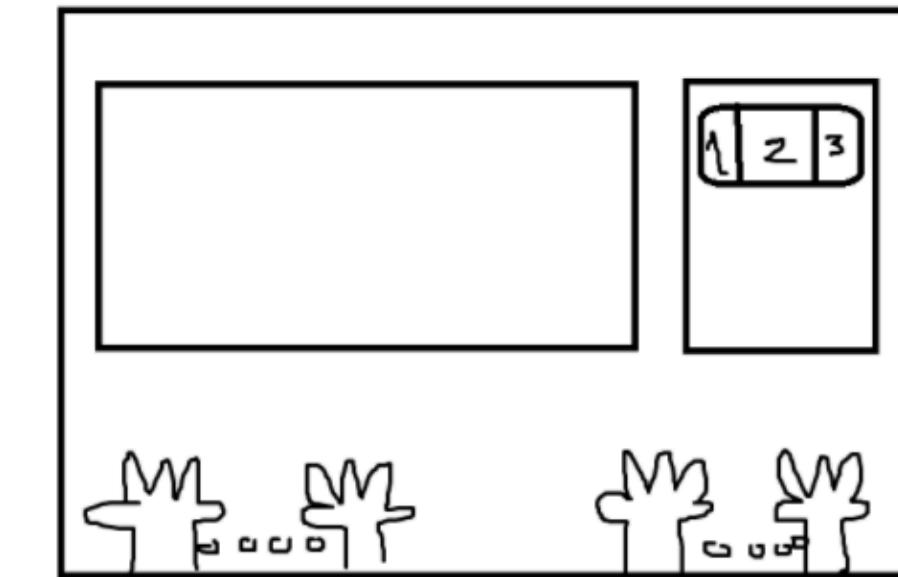


Première axe d'idée

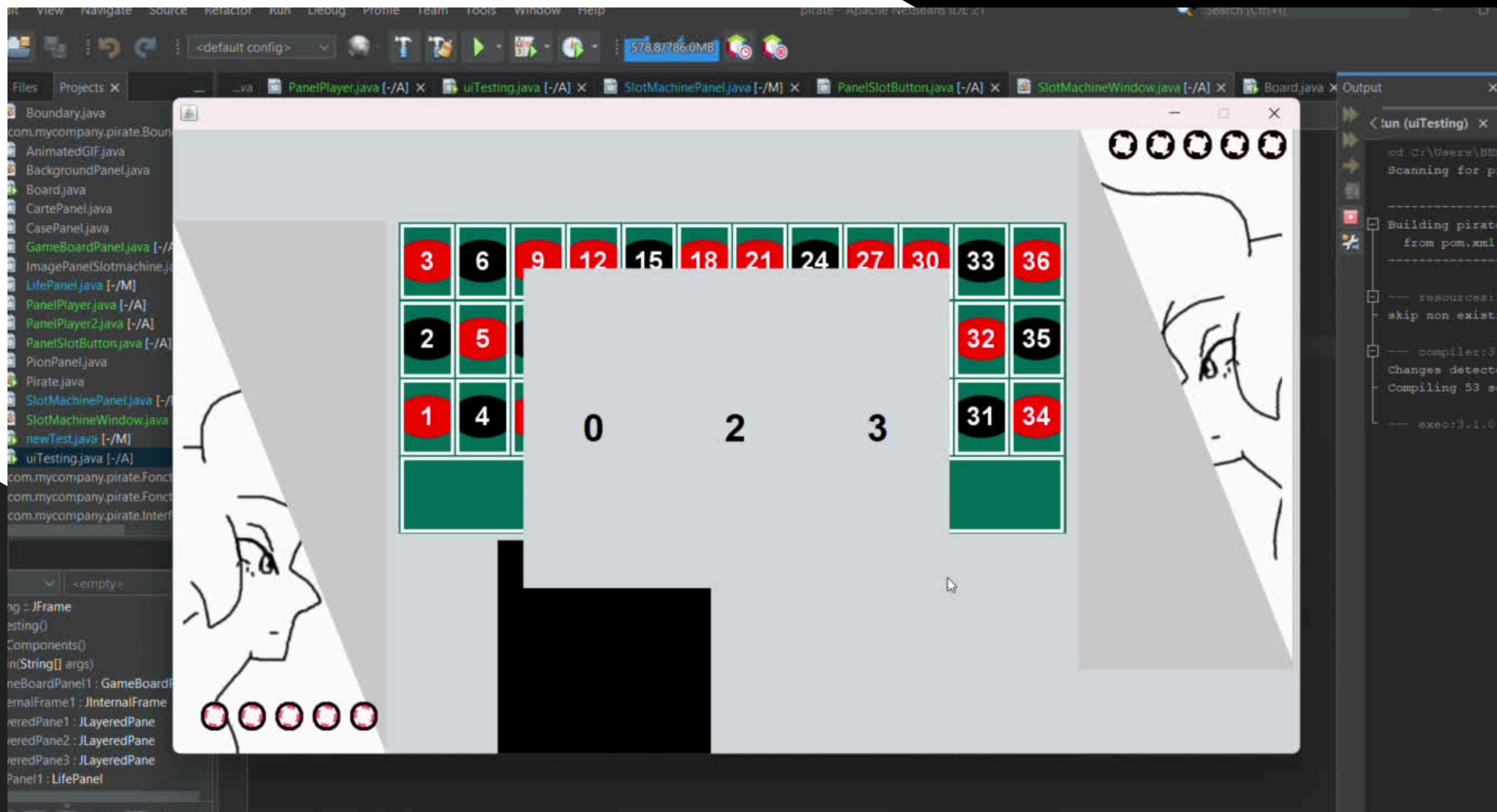
1



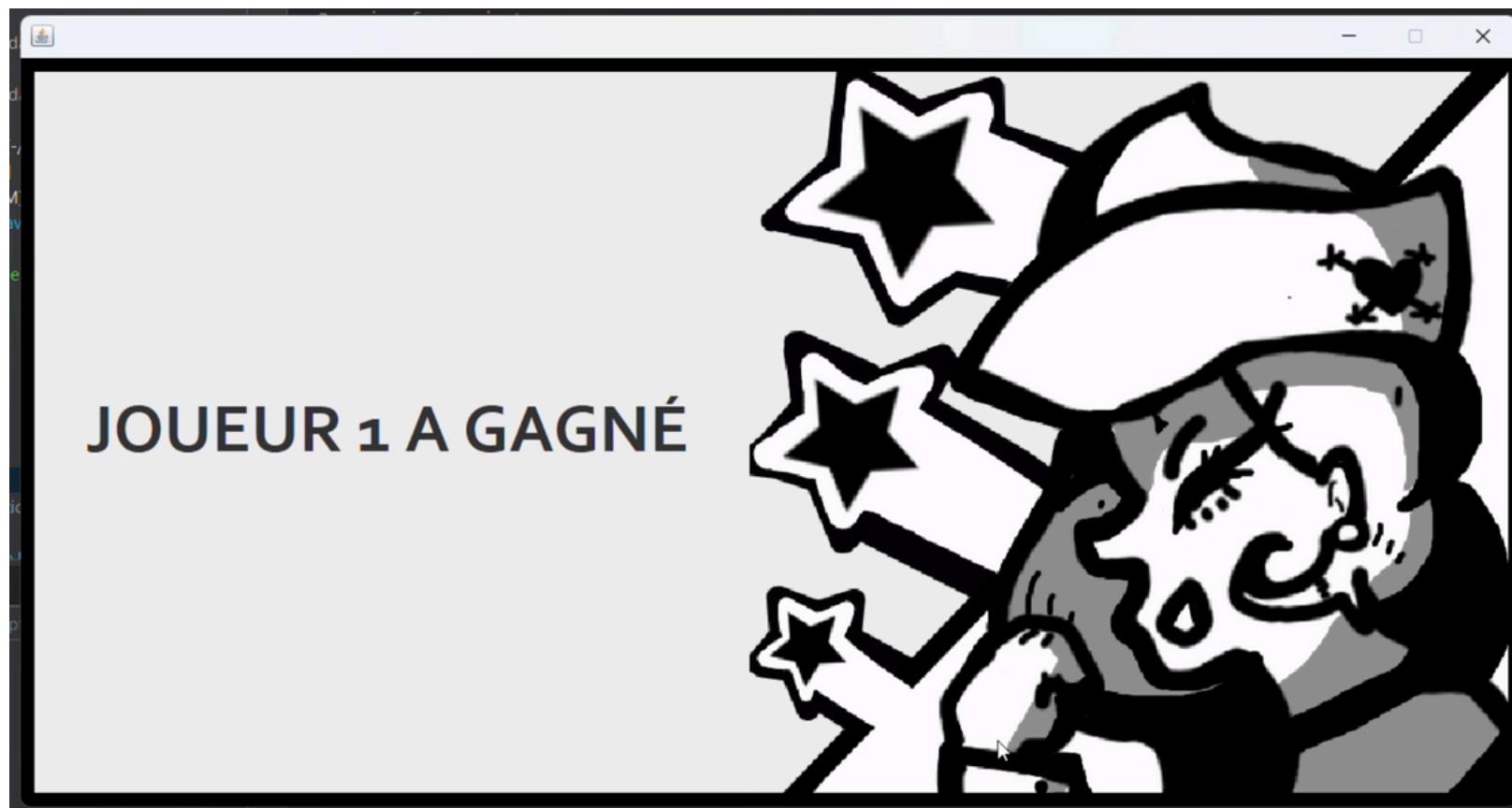
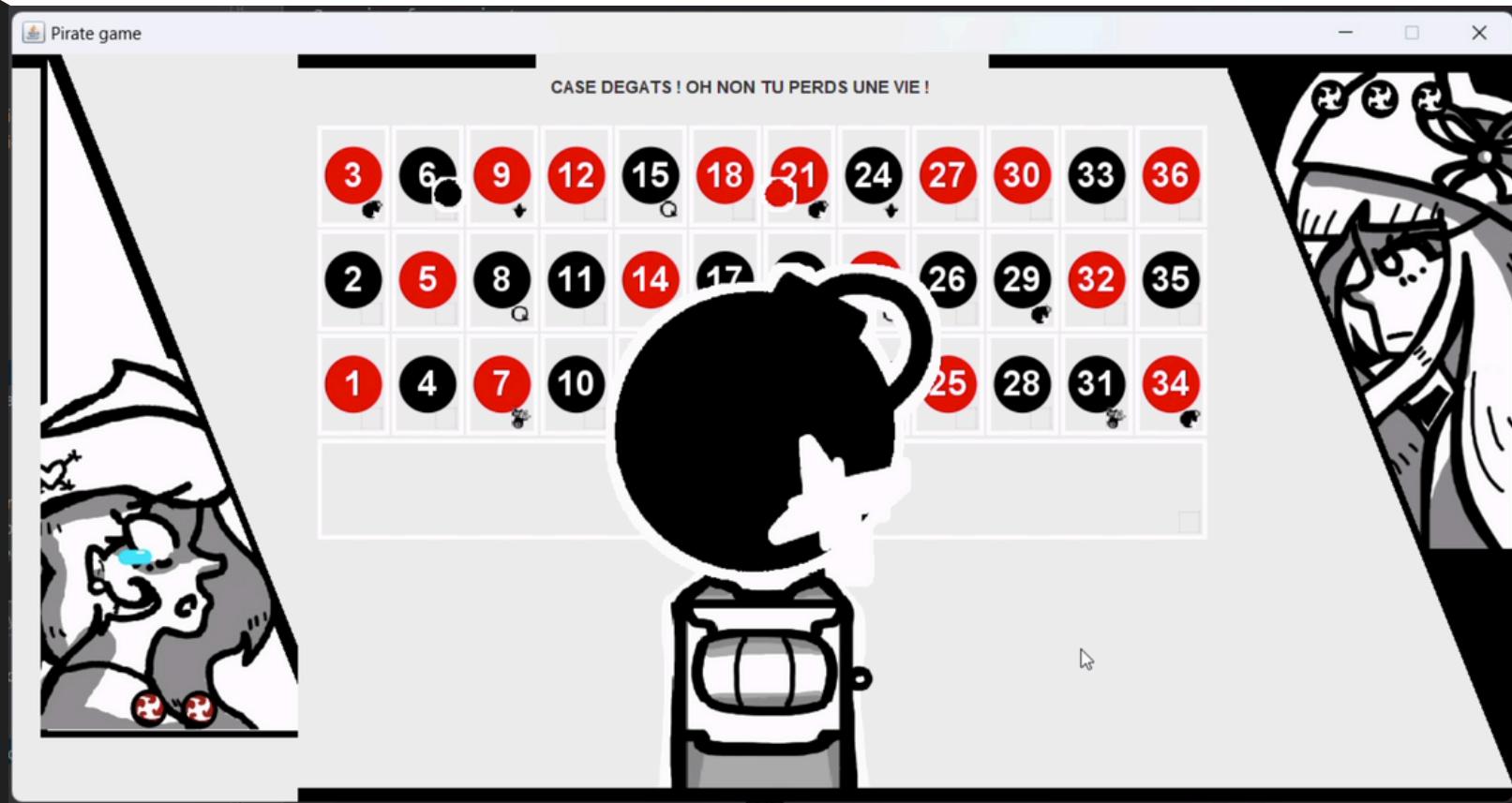
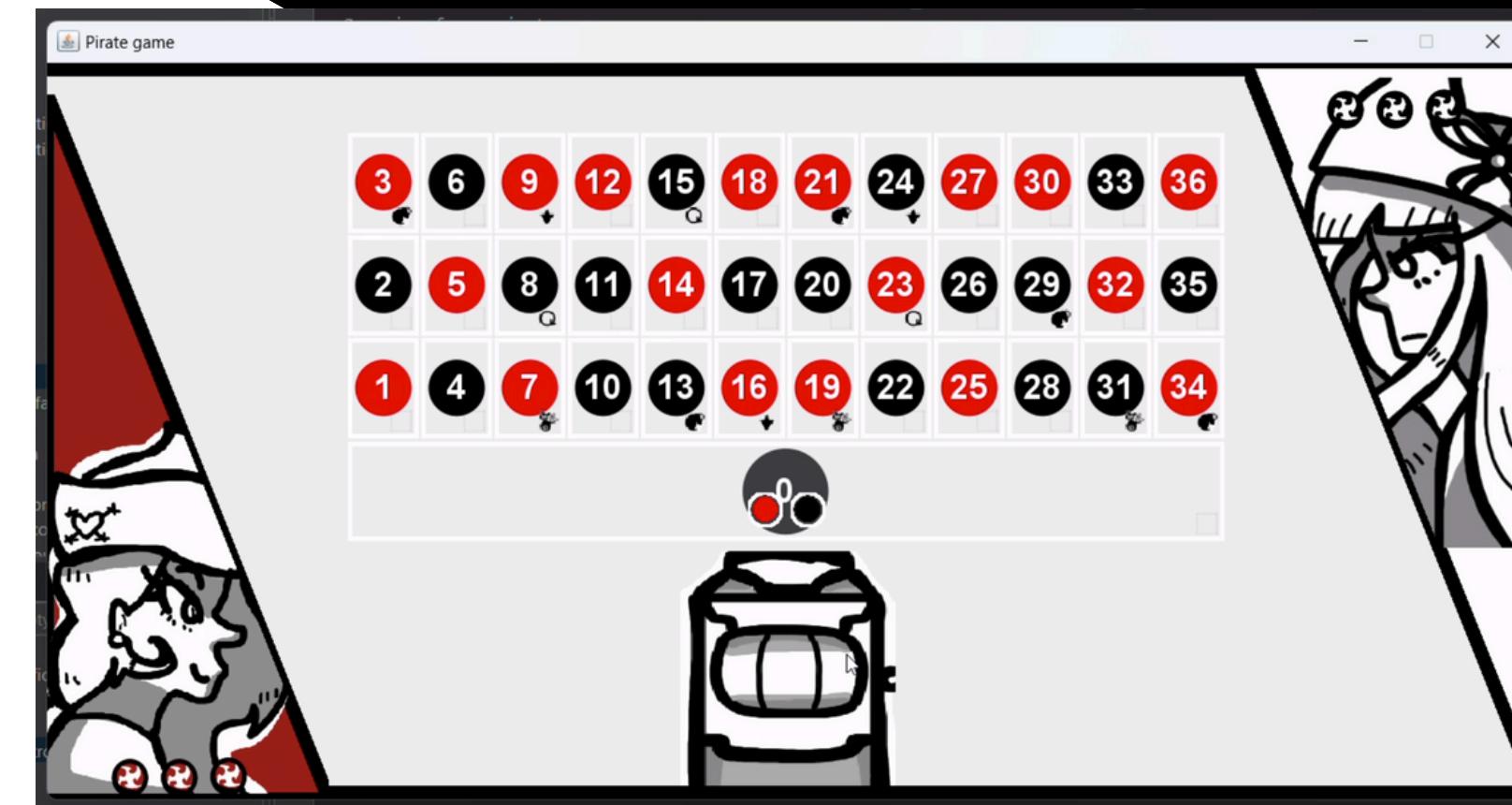
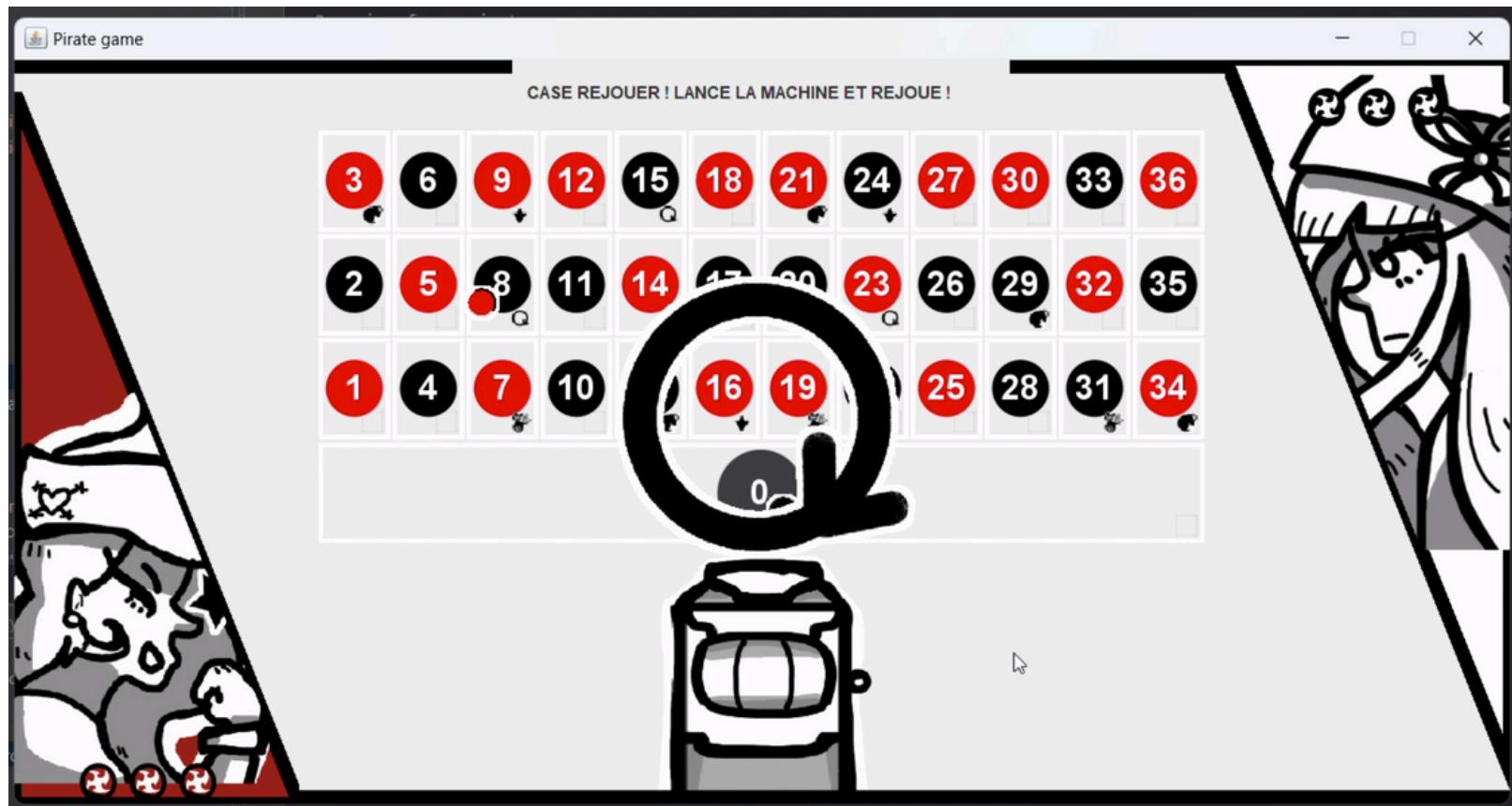
2



Second axe d'idée

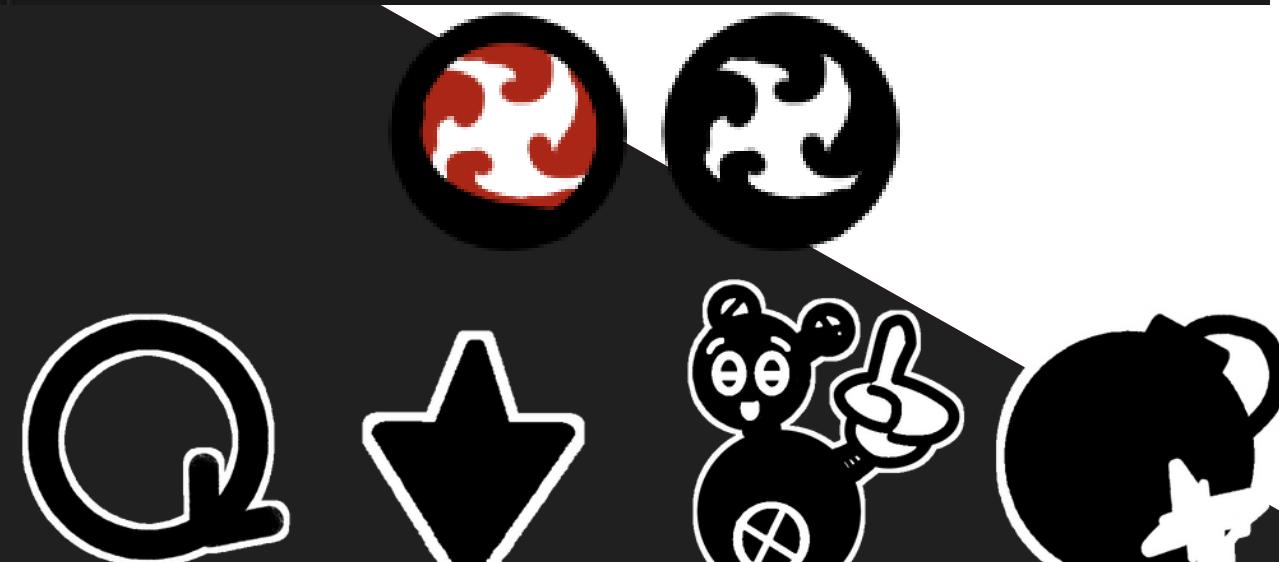




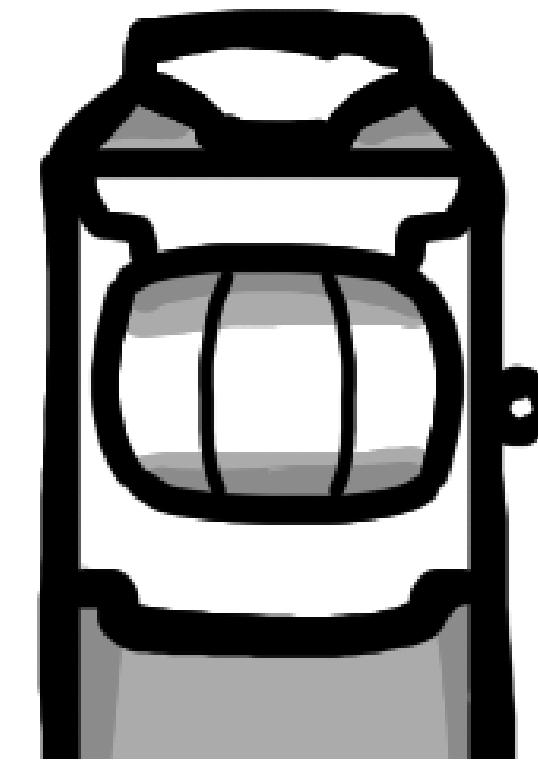


Beaucoup d'effet sonore pour un maximum de retour

Nom	Moderne	Type	Taille
FX_change_turn.wav	23/05/2024 10:55	Fichier WAV	15 Ko
FX_click.wav	23/05/2024 10:55	Fichier WAV	32 Ko
FX_damage.wav	23/05/2024 10:55	Fichier WAV	179 Ko
FX_gamblingmachine_victory.wav	23/05/2024 10:55	Fichier WAV	116 Ko
FX_machine_result.wav	23/05/2024 10:55	Fichier WAV	321 Ko
FX_machine_roulette.wav	23/05/2024 10:55	Fichier WAV	262 Ko
FX_offSlotMachine.wav	23/05/2024 10:55	Fichier WAV	9 Ko
FX_onSlotMachine.wav	23/05/2024 10:55	Fichier WAV	26 Ko
FX_popup_case.wav	20/05/2019 15:48	Fichier WAV	30 Ko
FX_saut.wav	24/05/2024 00:20	Fichier WAV	63 Ko
FX_win.wav	23/05/2024 21:50	Fichier WAV	402 Ko
VOICELINE_player1_damage.wav	24/05/2024 11:12	Fichier WAV	60 Ko
VOICELINE_player1_victory.wav	24/05/2024 11:12	Fichier WAV	52 Ko
VOICELINE_player1_win.wav	23/05/2024 21:59	Fichier WAV	156 Ko
VOICELINE_player2_damage.wav	24/05/2024 11:12	Fichier WAV	47 Ko
VOICELINE_player2_victory.wav	24/05/2024 11:12	Fichier WAV	109 Ko
VOICELINE_player2_win.wav	23/05/2024 21:49	Fichier WAV	238 Ko



Spirite des icônes

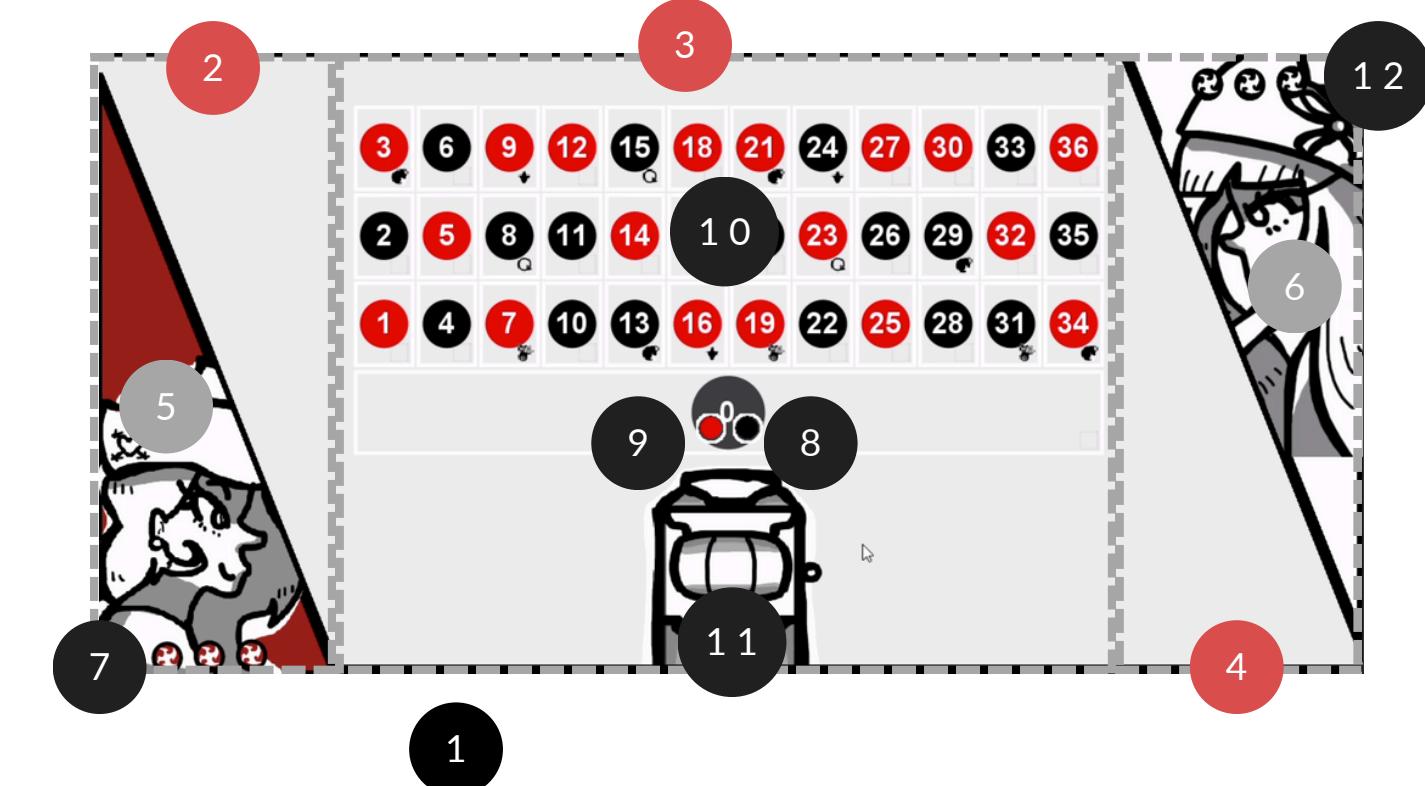
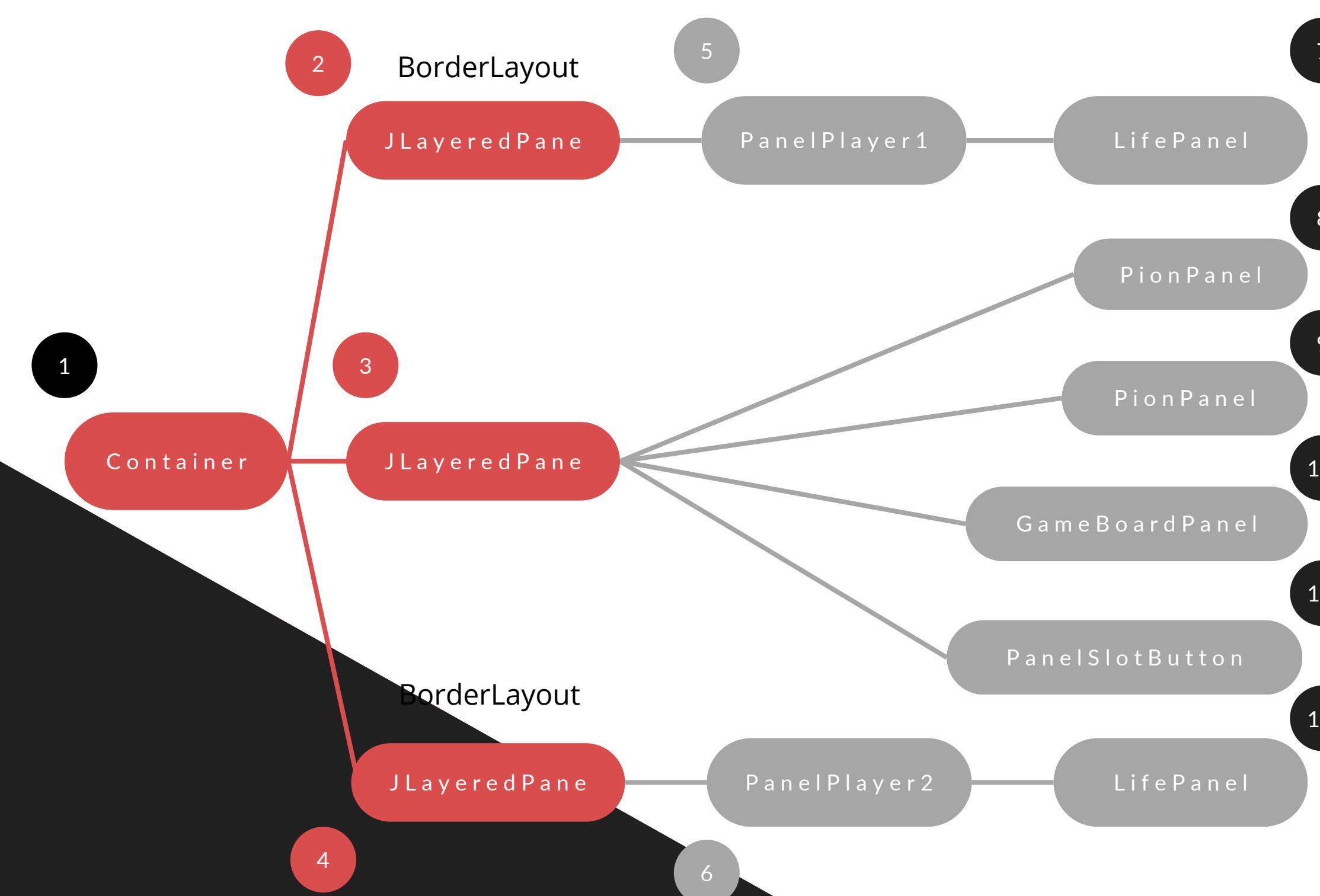


Spirite machine a sous



Sprites des joueurs





## • PanelPlayerDisplayer

```

public abstract class PanelPlayerDisplay extends javax.swing.JPanel {
    protected BufferedImage playerImage;
    protected BufferedImage idleImage;
    protected BufferedImage victoryImage;
    protected BufferedImage damageImage;
    protected int triangleBase = 200;
    protected int triangleHeight = 500;
    protected Color colorBackground = Color.white;

    // Etat de tour
    protected Color turnColor = Color.white;

    public enum PlayerState {
        IDLE,
        VICTORY,
        DAMAGE
    }

    protected PlayerState currentState = PlayerState.IDLE;

    protected void loadImage(String imagePath) {...7 lines}

    protected BufferedImage loadImageFromFile(String path) {...8 lines}

    public void setState(PlayerState state) {...4 lines}

    protected void updateImage() {...8 lines}

    protected abstract void startAnimation();

    public void setTurn(boolean bool) {...8 lines}

    public abstract void playVoiceline(PlayerState state);
}

```

```

/**
 *
 * @author BEN JAAFAR
 */
public class PanelPlayer1 extends PanelPlayerDisplay {
    private double imageY = 0;
    private double imageSpeed = 0.2;
    private boolean movingDown = true;
    private SoundPlayer voicelineDamage = new SoundPlayer(VOICELINE_PLAYER1_DAMAGE);
    private SoundPlayer voicelineVictory = new SoundPlayer(VOICELINE_PLAYER1_VICTORY);

    public PanelPlayer1() {...10 lines}

    private void loadImages() {...5 lines}

    @Override
    public void startAnimation() {...28 lines}

    @Override
    protected void paintComponent(Graphics g) {...32 lines}

    @Override
    public void playVoiceline(PlayerState state){...6 lines}

    @SuppressWarnings("unchecked")
    Generated Code
}

```

## • PanelPlayerDisplayer

```
@Override
public void startAnimation() {
    Timer timer = new Timer(20, e -> {
        if (playerImage != null && playerImage.getWidth() != 0) {
            int imageWidth = triangleBase - 20;
            int imageHeight = playerImage.getHeight() != 0 ? (int) ((double) playerImage.getHeight() / playerImage.getWidth() * imageWidth) : 0;

            if (imageHeight > triangleHeight - 20) {
                imageHeight = triangleHeight - 20;
                imageWidth = (int) ((double) playerImage.getWidth() / playerImage.getHeight() * imageHeight);
            }

            if (movingDown) {
                imageY += imageSpeed;
                if (imageY >= triangleHeight - imageHeight) {
                    movingDown = false;
                }
            } else {
                imageY -= imageSpeed;
                if (imageY <= 150) {
                    movingDown = true;
                }
            }
        }

        repaint();
    });
    timer.start();
}
```

- LifePanel

```

    /**
     *
     * @author BEN JAAFAR & MUNOS
     *
     */
    public class LifePanel extends javax.swing.JPanel {
        private boolean isPlayer1 = true;
        private int viesRestantes = MAX_LIFE;
        private BufferedImage lifeImage;
        private final int lifeImageWidth = 30;
        private final int lifeImageHeight = 30;
        private LifeAnimation[] animations;

        public LifePanel() { ...7 lines}

        private void startAnimations() { ...7 lines}

        private void loadImage() { ...7 lines}

        @Override
        protected void paintComponent(Graphics g) { ...20 lines}

        public void perdreVie() { ...6 lines}

        public void setPlayer2() { ...4 lines}

        private class LifeAnimation extends Thread { ...37 lines}

        @SuppressWarnings("unchecked")
    }
    Generated Code

```

```

private class LifeAnimation extends Thread {
    private int yOffset = 0;
    private boolean running = true;

    public LifeAnimation(int delay) {
        setDaemon(true);
        try {
            Thread.sleep(delay);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
    }

    public void run() {
        double time = 0.0;
        double amplitude = 5.0;
        double frequency = 0.02;
        while (running) {
            try {
                Thread.sleep(16);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            yOffset = (int) (amplitude * Math.sin(frequency * time));
            time += 1.0;
            repaint();
        }
    }

    public int getYOffset() {
        return yOffset;
    }

    public void stopAnimation() {
        running = false;
    }
}

```

## • GameBoardPanel

```

/*
 * Author BEN JAAFAR & RIBEIRO
 *
 * Chedli -> conception du composants + creation du board (avec les cellules)
 *          + conception de la methode deplacerPion
 * RIBEIRO -> Animationpath
 * MUNOS -> Afficages des icones pour les cases spéciales
 */
public class GameBoardPanel extends javax.swing.JPanel {
    private static final int PIECE_Y_OFFSET = -50; // Ajustement de la position
    private SoundPlayer fxSaut = new SoundPlayer(FX_SAUT_PION);
    private Map<Integer, ImageIcon> iconMap;

    public GameBoardPanel() { ...40 lines }

    private Map<Integer, ImageIcon> loadIcons() { ...23 lines }

    public void deplacerPion(PionPanel pion, int destinationCellNumber, Runnable runnable) { ...10 lines }

    private List<Integer> createPath(int start, int end) { ...13 lines }

    private void animatePath(PionPanel pion, List<Integer> path, int index, Runnable runnable) { ...10 lines }

    private void animatePionMovement(PionPanel pion, int destinationX, int destinationY, Runnable runnable) { ...10 lines }

    private class CellPanel extends JPanel { ...55 lines }
    @SuppressWarnings("unchecked")
    Generated Code

    // Variables declaration - do not modify
    // End of variables declaration
}

```

```

private class CellPanel extends JPanel {
    private int cellNumber;
    private ImageIcon icon;
    private static final List<Integer> RED_NUMBERS = Arrays.asList(1, 3, 5, 7, 9);
    public CellPanel(int cellNumber, ImageIcon icon) {
        setOpaque(false);
        this.icon = icon;

        this.cellNumber = cellNumber;
        this.setPreferredSize(new Dimension(80, 80)); // Taille préférée pour la cellule
    }

    @Override
    protected void paintComponent(Graphics g) { ...36 lines }

    private boolean isRed(int number) {
        return RED_NUMBERS.contains(number);
    }

    public int getCellNumber() {
        return cellNumber;
    }

}
@SuppressWarnings("unchecked")
Generated Code

```

## • Système de popup

```
/*
 *
 * @author BEN JAAFAR
 */
public class CasePopup extends JWindow {
    private ImageIcon imageIcon;
    protected float alpha = 1f;
    private Timer timer;
    int imageSizeScaled = 250;
    private SoundPlayer popupSound = new SoundPlayer(FX_POPUP_CASE);

    public CasePopup(ImageIcon imageIcon, int displayTime) { ...23 lines }

    private void fadeOut() { ...15 lines }

    @Override
    public void paint(Graphics g) {
        super.paint(g);
        Graphics2D g2d = (Graphics2D) g.create();

        g2d.setComposite(AlphaComposite.SrcOver.derive(alpha));

        Image image = imageIcon.getImage();
        int x = (getWidth() - imageSizeScaled) / 2;
        int y = (getHeight() - imageSizeScaled) / 2;
        g2d.drawImage(image, x, y, imageSizeScaled, imageSizeScaled, this); // ...

        g2d.dispose();
    }
}
```

```
/*
 * @author BEN JAAFAR
 *
 * Permet de ne pas avoir à charger les images à chaque fois et de juste directement afficher la popup, les images étant toujours chargées
 */
public class CasePopupManager {
    private ImageIcon iconBomb;
    private ImageIcon iconRejouer;
    private ImageIcon iconReculer;
    private ImageIcon iconGambi;
    private JWindow textPopup;

    public CasePopupManager() { ...6 lines }

    public void popupCaseBomb() {
        new CasePopup(iconBomb, 500);
    }

    public void popupCaseRejouer() {
        new CasePopup(iconRejouer, 1000);
    }

    public void popupCaseReculer() {
        new CasePopup(iconReculer, 1000);
    }

    public void popupCaseGambi() {
        new CasePopup(iconGambi, 1000);
    }

    public void showPopup(JFrame parent, String message) { ...27 lines }

    public void closePopup() { ...6 lines }
}
```

- Système de popup

```
public void showPopup(JFrame parent, String message) {  
    textPopup = new JWindow();  
  
    JLabel messageLabel = new JLabel(message);  
    messageLabel.setBorder(BorderFactory.createEmptyBorder(10, 10, 10, 10));  
  
    Dimension labelSize = messageLabel.getPreferredSize();  
  
    textPopup.setSize(labelSize.width + 50, labelSize.height + 10);  
  
    int x = parent.getX() + (parent.getWidth() - textPopup.getWidth()) / 2;  
  
    int y = parent.getY() + parent.getInsets().top;  
  
    textPopup.setLocation(x, y);  
    textPopup.add(messageLabel);  
  
    parent.addWindowListener(new WindowAdapter() {  
        @Override  
        public void windowClosed(WindowEvent e) {  
            textPopup.dispose();  
        }  
    });  
  
    textPopup.setVisible(true);  
}
```

## • SlotMachine

```

/*
 * @author BEN JAAFAR
 * Panel faisant office de bouton pour lancer la machine à sous
 * Il comprend des animations et fx sonore
 */
public class PanelSlotButton extends javax.swing.JPanel {
    private Image slotMachineImage;
    private SlotMachineWindow window;
    private final SoundPlayer fxOnSlotmachine;
    private final SoundPlayer fxOffSlotmachine;
    private final SoundPlayer fxClick;
    private boolean isMouseOver = false;
    private final MouseAdapter mouseAdapter;

    public PanelSlotButton() { ...26 lines ... }

    private void loadSlotMachineImage() { ...3 lines ... }

    private void handleMouseClicked() { ...4 lines ... }

    private void handleMouseEnter() { ...6 lines ... }

    private void handleMouseExit() { ...6 lines ... }

    private void openSlotMachineWindow() { ...5 lines ... }

    public void startAnimation(int[] values, Runnable onAnimationEnd) { ...7 lines ... }

    @Override
    protected void paintComponent(Graphics g) { ...15 lines ... }

    public void activateListeners() { ...3 lines ... }

    public void deactivateListeners() { ...3 lines ... }

    @SuppressWarnings("unchecked")
    Generated Code
}

```

```

/*
 * @author BEN JAAFAR
 */
class SlotMachineWindow extends JWindow{
    private SoundPlayer fxMachineRoulette = new SoundPlayer(FX_MACHINE_ROULETTE);
    private Runnable endAnimation;

    public SlotMachineWindow() {
        fxMachineRoulette.play();
        fxMachineRoulette.loop();
        setSize(600, 300);

        //On ferme la fenêtre après 3sec
        Timer timer = new Timer(3000, (ActionEvent e) -> {
            dispose();
            fxMachineRoulette.stop();
            fxMachineRoulette.close();
            if(endAnimation != null){
                endAnimation.run();
            }
        });
        timer.setRepeats(false);
        timer.start();
    }

    public void startAnimation(int[] values, Runnable onAnimationEnd) {
        SlotMachinePanel slotMachinePanel = new SlotMachinePanel(values);
        add(slotMachinePanel, BorderLayout.CENTER);
        slotMachinePanel.startAnimation(values);
        this.endAnimation = onAnimationEnd;
    }
}

```

## • SlotMachine

```
public class SlotMachinePanel extends javax.swing.JPanel {  
    private SoundPlayer FX_result = new SoundPlayer(FX_MACHINE_ROULETTE_RESULT);  
    private final JLabel[] slotLabels = new JLabel[3];  
    private final Random random = new Random();  
    private int[] finalValues;  
    private final int[] currentValues = new int[3];  
    private final int maxValue = 4;  
    private static final int ANIMATION_DURATION = 2000;  
    private long animationStartTime;  
    private Timer timer;  
  
    public SlotMachinePanel(int[] values) {...12 lines }  
  
    public void startAnimation(int[] values) {...5 lines }  
  
    private void updateSlots() {...17 lines }  
  
    @Override  
    protected void paintComponent(Graphics g) {...14 lines }  
    @SuppressWarnings("unchecked")  
    Generated Code  
  
    // Variables declaration - do not modify  
    // End of variables declaration  
}
```

- PionPanel & WinFramePanel

```
/*
 * @author BEN JAAFAR
 */
public class PionPanel extends javax.swing.JPanel {
    private Color pionColor = Color.RED;
    private int cellPosition = 0;
    public int player_number = 0;

    public PionPanel() {
        setOpaque(false);
    }

    @Override
    protected void paintComponent(Graphics g) {...16 lines...}

    public void setColor(Color color) {
        this.pionColor = color;
    }

    public void setCellPosition(int cellPos){
        this.cellPosition = cellPos;
    }

    public int getCellPosition(){
        return cellPosition;
    }

    @SuppressWarnings("unchecked")
    Generated Code

    // Variables declaration - do not modify
    // End of variables declaration

}
```

## • PionPanel & WinFramePanel

```
* @author BEN JAAFAR
*/
public class FrameWinPlayer extends javax.swing.JFrame {
    private SoundPlayer endingTheme = new SoundPlayer(OST_ENDING);
    private String name;

    public FrameWinPlayer(String name) {
        this.name = name;
        initComponents();
        setLocationRelativeTo(null);
        setResizable(false);
        run();
    }

    private void run() {
        setVisible(true);
        imagePanel1.loadImage(name);
        TestWIN.setText(name.toUpperCase() + " A GAGNÉ");
        endingTheme.setVolume(-10);
        endingTheme.play();
        endingTheme.loop();
    }
}
/**
```

```
* @author BEN JAAFAR
*/
public class PanelImagePlayerWinScreen extends javax.swing.JPanel {
    private Image image = null;
    private String imagePath = null;

    private int imageX;
    private int imageY;
    private int targetX;
    private int speed = 40;
    private Timer timer;

    private SoundPlayer voiceline;

    public PanelImagePlayerWinScreen() {
        setOpaque(false);
    }

    @Override
    protected void paintComponent(Graphics g) {
        super.paintComponent(g);
        g.drawImage(image, imageX, imageY, this);
    }

    /*load image and voiceline*/
    public void loadImage(String name){...28 lines}

    private void animateImage(){...11 lines}

    @SuppressWarnings("unchecked")
    Generated Code
```

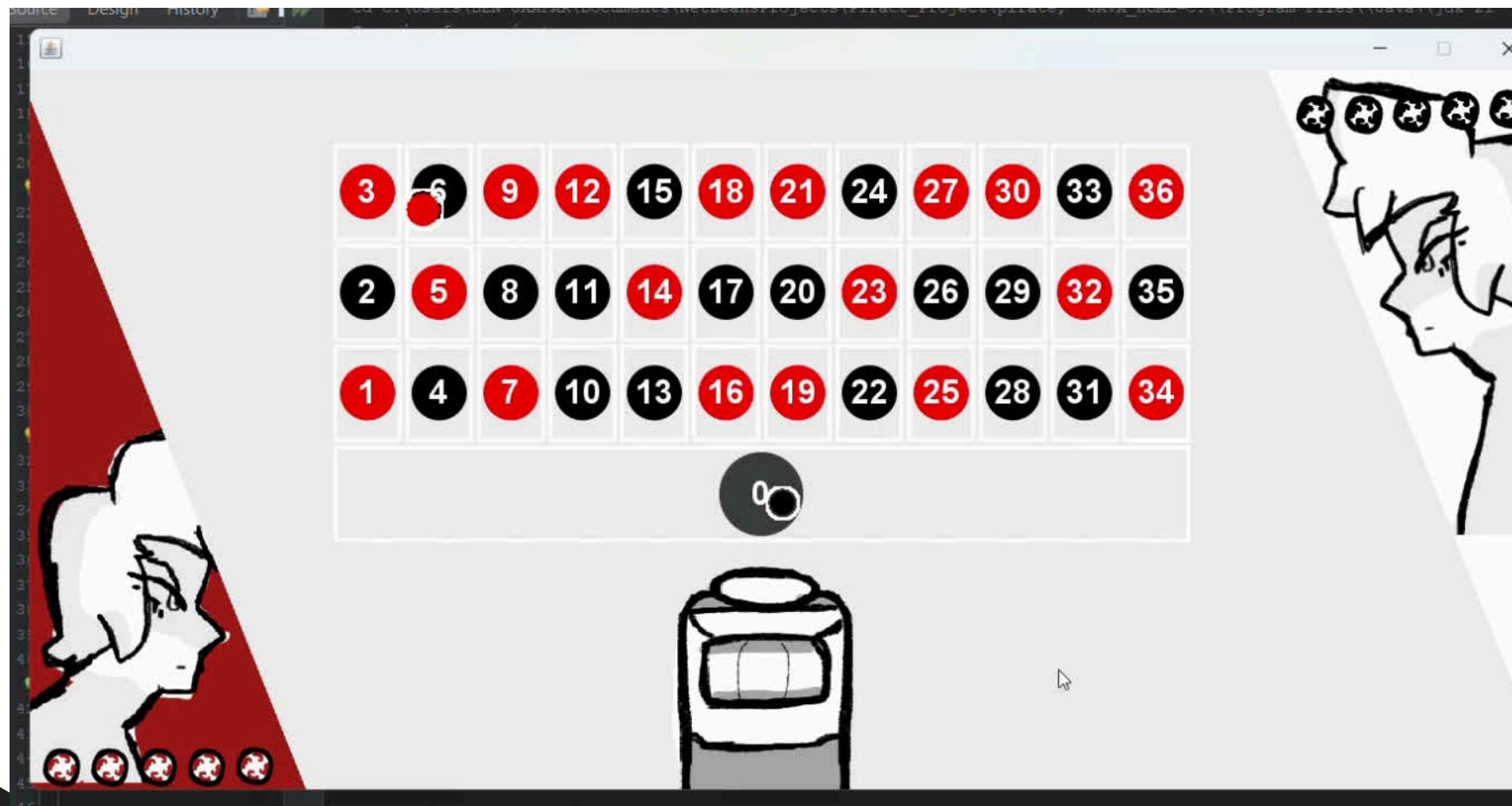
- Point sur *UI.java*

```
public void movePiece(int destinationCellNumber, String name) {
    PionPanel currentPlayer = pionPanels.get(name);
    if (currentPlayer != null) {
        int currentIndex = currentPlayer.getCellPosition();
        CountDownLatch latchAnimationEnd = new CountDownLatch(1);
        PanelGameboard.deplacerPion(currentPlayer, currentIndex + destinationCellNumber, () -> latchAnimationEnd.countDown());
        try {
            latchAnimationEnd.await();
            currentPlayer.setCellPosition(currentIndex + destinationCellNumber);
            PanelButtonSlotMachine.activateListeners();
        } catch (InterruptedException e) {
            Thread.currentThread().interrupt();
        }
    }
}

// Manage the slot machine, its animation, etc.
@Override
public void spinMachineUI(int[] values) {
    CountDownLatch latchClick = new CountDownLatch(1);
    CountDownLatch latchAnimationEnd = new CountDownLatch(1);

    SwingUtilities.invokeLater(() -> {
        try {
            // Code to start the slot machine animation
            setPanelClickListener(() -> latchClick.countDown());
        } catch (Exception e) {
            e.printStackTrace();
        }
    });
}

try {
    latchClick.await();
} catch (InterruptedException e) {
    Thread.currentThread().interrupt();
    return;
}
```



```

private void animatePionMovement(PionPanel pion, int destinationX, int destinationY, int dest
int startX = pion.getX();
int startY = pion.getY();
int deltaX = destinationX - startX;
int deltaY = destinationY - startY;
int steps = 30;
int delay = 1;
Timer timer = new Timer(delay, new ActionListener() {
    int step = 0;
    @Override
    public void actionPerformed(ActionEvent e) {
        step++;
        double progress = (double) step / steps;
        int currentX = startX + (int) (deltaX * progress);
        int currentY = startY + (int) (deltaY * progress);
        pion.setLocation(currentX, currentY);
        if (step >= steps) {
            ((Timer) e.getSource()).stop();
            pion.setLocation(destinationX, destinationY);
            pion.setCellPosition(destinationCellNumber);

            // Ajoute un délai d'une seconde ici
            Timer delayTimer = new Timer(500, (ActionEvent ev) -> {
                if (onAnimationEnd != null) {
                    onAnimationEnd.run();
                }
            });
            delayTimer.setRepeats(false); // Exécute onAnimationEnd.run() une seule fois
            delayTimer.start();
        }
    }
});
timer.start();

```

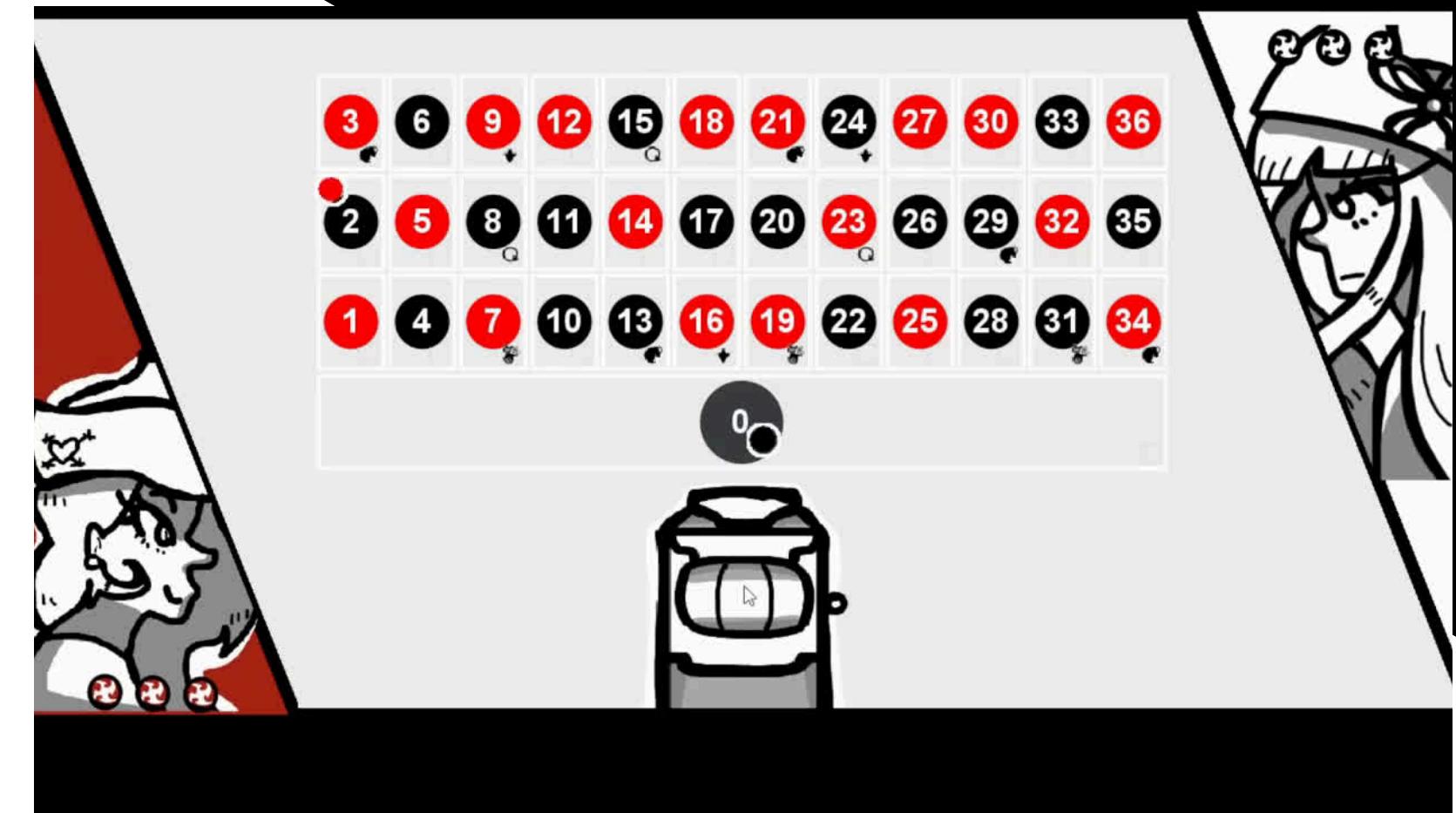
```

private void animatePionMovement(PionPanel pion, int destinationX, int destinationY, int destinationCellNumber) {
    int startX = pion.getX();
    int startY = pion.getY();
    int deltaX = destinationX - startX;
    int deltaY = destinationY - startY;
    int steps = 15; // - de steps = + de vitesse pour le pion
    int delay = 1; // délais entre les steps (1 par defaut pour pas dépasser d'autres evenements)

    Timer timer = new Timer(delay, new ActionListener() {
        int step = 0;
        @Override
        public void actionPerformed(ActionEvent e) {
            step++;
            double progress = (double) step / steps;
            int currentX = startX + (int) (deltaX * progress);
            int currentY = startY + (int) (deltaY * progress);
            pion.setLocation(currentX, currentY);
            if (step >= steps) {
                ((Timer) e.getSource()).stop();
                pion.setLocation(destinationX, destinationY);
                pion.setCellPosition(destinationCellNumber);

                // Ajouter un délai ici si nécessaire
                Timer delayTimer = new Timer(10, (ActionEvent ev) -> {
                    if (onAnimationEnd != null) {
                        onAnimationEnd.run();
                    }
                });
                delayTimer.setRepeats(false); // Exécute onAnimationEnd.run() une seule fois
                delayTimer.start();
            }
        }
    });
}

```



```

private void animatePath(PionPanel pion, List<Integer> path, int index, Runnable onAnimationEnd) {
    if (index >= path.size()) {
        if (onAnimationEnd != null) {
            onAnimationEnd.run();
        }
        return;
    }

    int cellNumber = path.get(index);
    for (Component component : getComponents()) {
        if (!(component instanceof CellPanel))
            continue;

        CellPanel cellPanel = (CellPanel) component;
        if (cellPanel.getCellNumber() == cellNumber) {
            int destinationX = cellPanel.getX() + cellPanel.getWidth() / 2;
            int destinationY = cellPanel.getY() + cellPanel.getHeight() / 2 - PIECE_Y_OFFSET;

            if (pion.getPlayer_number() == 1)
                destinationX -= 15;
            else if (pion.getPlayer_number() == 2)
                destinationX += 15;

            animatePionMovement(pion, destinationX, destinationY, cellNumber, () -> animatePath(pion, path, index + 1,
            break;
        }
    }
}

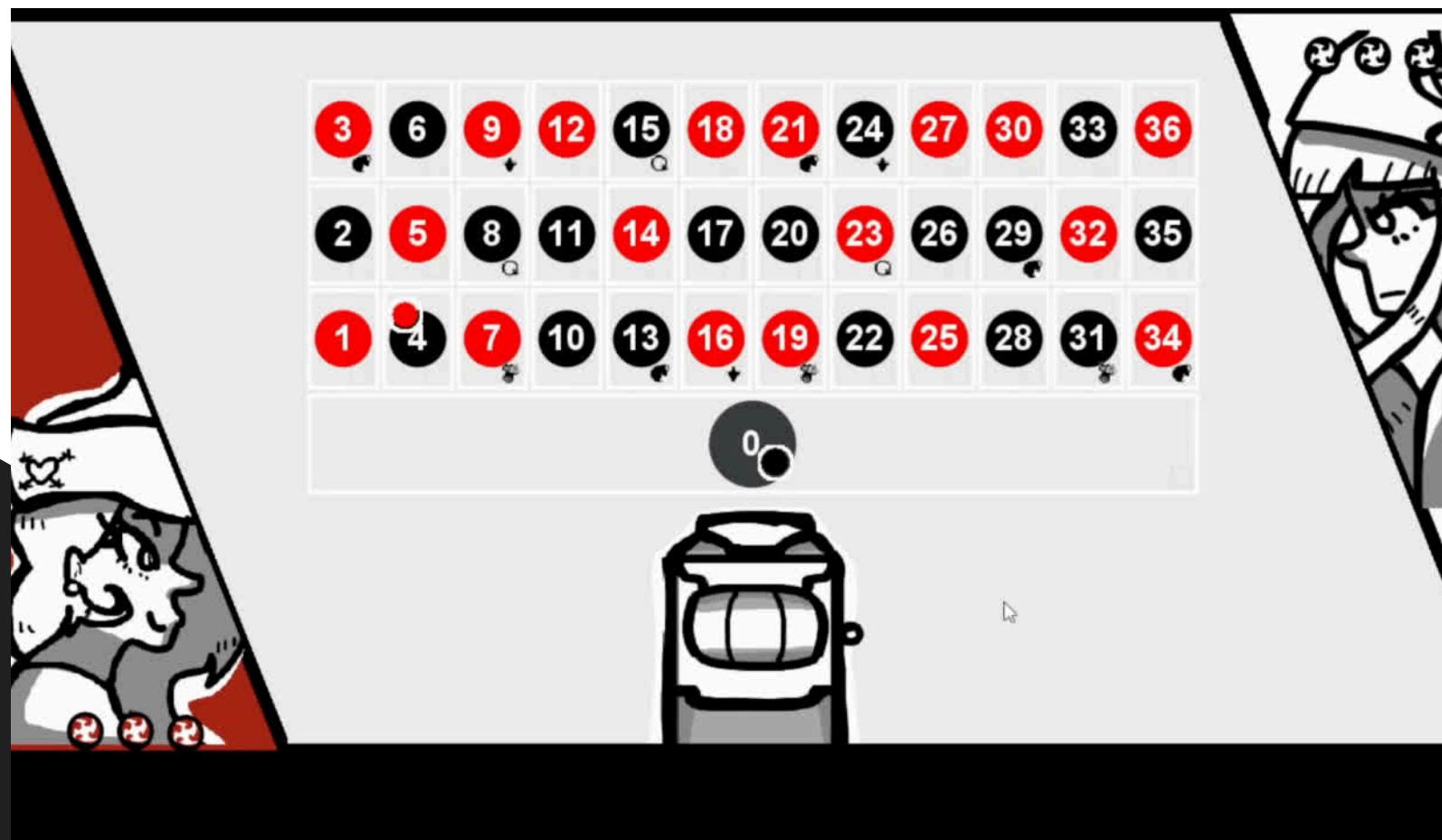
```

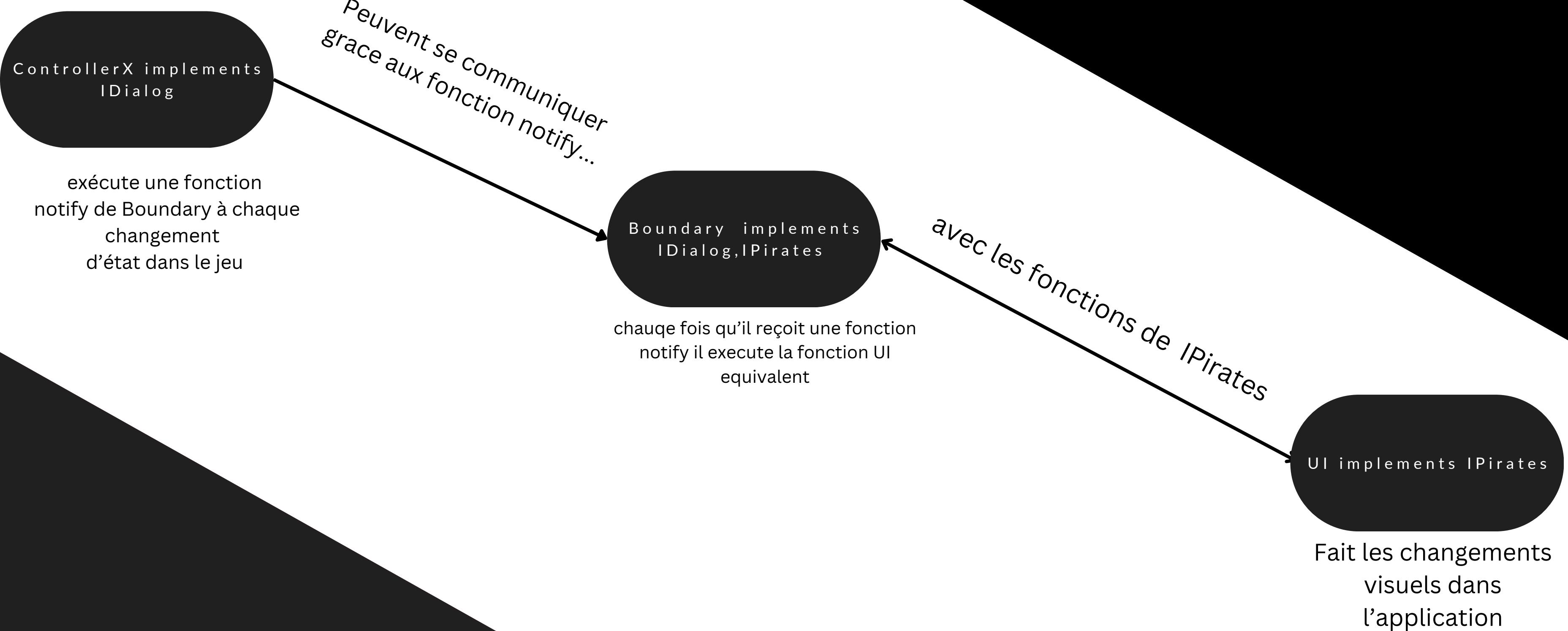
```

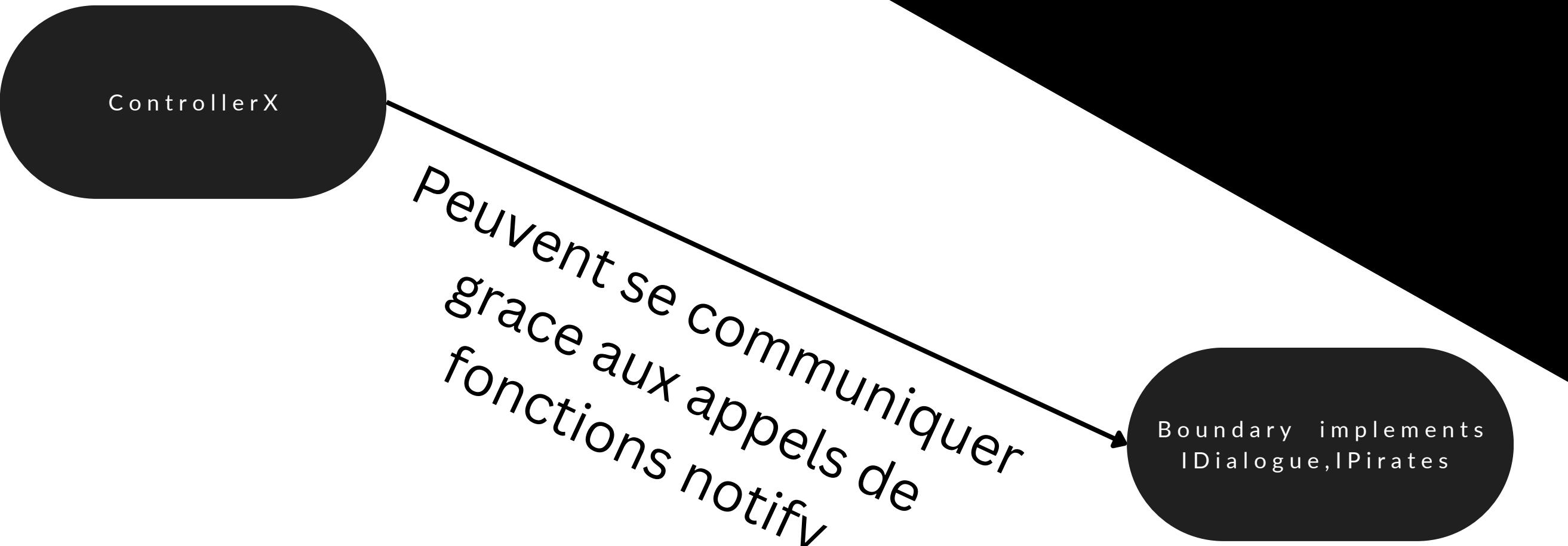
private void animatePionMovement(PionPanel pion, int destinationX, int destinationY, int destinationCellNumber, R
    int startX = pion.getX();
    int startY = pion.getY();
    int deltaX = destinationX - startX;
    int deltaY = destinationY - startY;
    int steps = 20; // - de steps = + de vitesse pour le pion
    int delay = 1; // délais entre les steps (1 par defaut pour pas dépasser d'autres evenements)
    double arcHeightFactor = 0.2; // ajuster la hauteur des sauts

    Timer timer = new Timer(delay, new ActionListener() {
        int step = 0;
        @Override
        public void actionPerformed(ActionEvent e) {
            step++;
            double t = (double) step / steps;
            double arcX = startX + deltaX * t + Math.sin(Math.PI * t) * (Math.abs(deltaY) * arcHeightFactor);
            double arcY = startY + deltaY * t;
            pion.setLocation((int) arcX, (int) arcY);
        }
    });
}

```







```

private final IControlSlotMachine controlSlotMachine;
private Random random = new Random();

public ControlGamblingDuel(ControlSlotMachine controlSlotMachine) {
    this.controlSlotMachine = controlSlotMachine;
}

@Override
public int duelDeDes(Pion pion, IDialogue notificationServices) {
    int min = 2;
    int max = 11;
    int randomValue = min + this.random.nextInt(max - min + 1);
    Optional.ofNullable(notificationServices).ifPresent(service -> service.notifyCaseGambling(randomValue));

    //Lancers de dés
    int[] valeurs = spin();
    int res = Arrays.stream(valeurs).sum();

    //perdant perd une vie
    if (res < randomValue) {
        pion.setVie(pion.getVie() - 1);
        Optional.ofNullable(notificationServices).ifPresent(service -> service.notify(pion.getName() + " a perdu le gambling"));
        Optional.ofNullable(notificationServices).ifPresent(service -> service.notifyDuelResult(pion.getName(), false));
        return -1;
    } else {
        Optional.ofNullable(notificationServices).ifPresent(service -> service.notify("DUEL REUSSI !"));
        Optional.ofNullable(notificationServices).ifPresent(service -> service.notifyDuelResult(pion.getName(), true));
        return 0;
    }
}

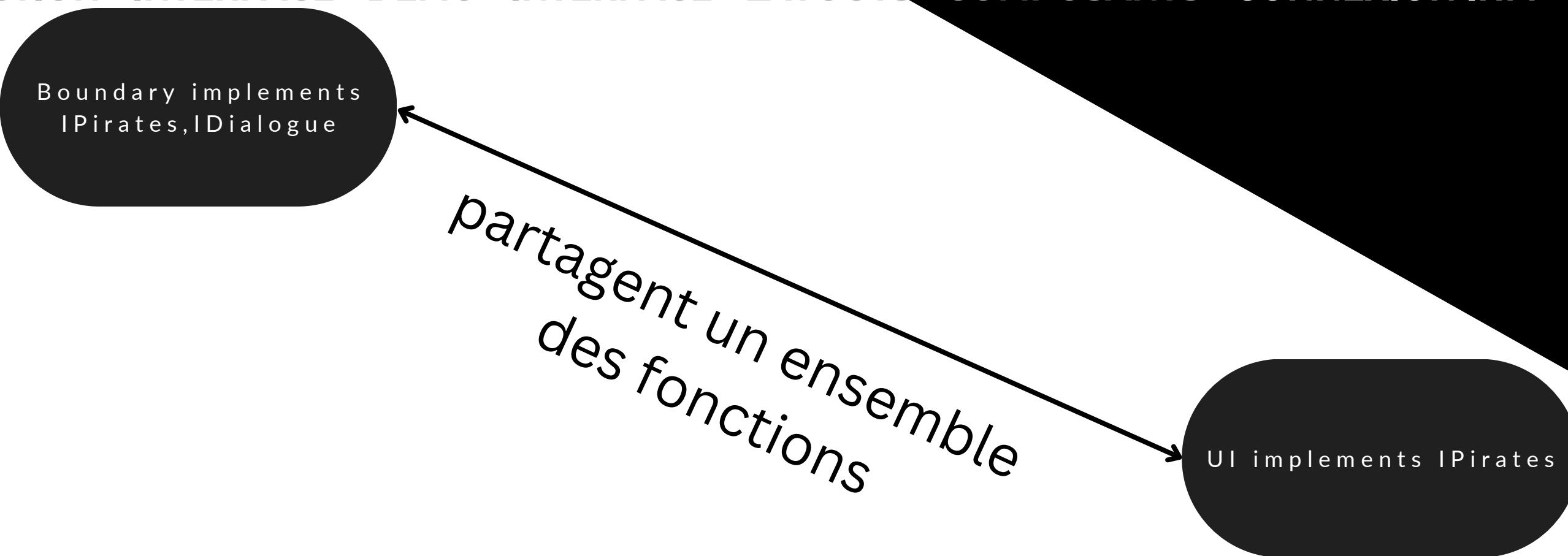
```

Qui se trouvent dans

```

/*
 * @author BEN JAAFAR
 *
 * Adaptateur qui permet le dialogue entre le jeu et la boudary
 */
public interface IDialogue {
    void notify(String message);
    void notifySpin(int[] values);
    void notifyEtatJeu();
    void notifyCaseDegat(String name, int vie);
    void notifyCaseRejouer(String name);
    void notifyCaseReculer();
    void notifyCaseGambling(int randomValue);
    void notifyDuelResult(String name, boolean win);
    void notifyDeplacerPion(int deplacement, String name);
    void notifyNouveauTour(String name);
    void notifyFinDeJeu();
}

```



Boundary.java X

```
@Override
public void notifyNouveauTour(String name) {
    newTurn();
}

@Override
public void newTurn() {
    this.GUI.newTurn();
}
```

Qui se trouve dans

UI.java X

```
L33 public void newTurn() {
L34     PanelDisplayerPlayer1.setTurn(testingTurn);
L35     PanelDisplayPlayer2.setTurn(!testingTurn);
L36     testingTurn = !testingTurn;
L37     changeTurn.play();
L38 }
L39 }
```

```
public interface IPirates {

    public void movePiece(int deplacement, String name);
    public void startGUI();

    public void spinMachine(int[] values);
    public void newTurn();
    public void endGame();
    public void takeDamage(String name);
    public void gamblingDuelResult(String name, boolean win);
    public void caseBombe();
    public void caseRejouer(String name);
    public void caseReculer();
    public void caseGambling(int value);

}
```

# Conclusion

# Merci.

PROJET PIRATES - 2024 - UNIVERSITE PAUL SABATIER

