Code Review

Ridham Sharma & Colton Blackwell

1. Duplicate Code

(Commit ID:b1f79b12ab23f49e8b4079f6ae847fd2982ebfd0)

- Streamlined CollisionHandler.java by replacing repetitive if/else statements with a dedicated function. This function assesses player-object collisions based on specified parameters.

2. Bug Fix / Level Skipping Error

(Commit ID: 5f4c12d443eebe373ebdb23b8989274c47844f87)

- Identified a code issue allowing users to bypass levels by repeatedly pausing and starting a new game.
- Addressed by implementing a condition in nextLevel() to verify completion of the previous level before progressing. Additionally, adjusted the starting level from 0 to 1.

3. Poorly Structured Code

(Commit ID: 897efe07a7dd2d23109ca4877cdd33ef8e907c49)

- Transferred the assignment of 'gameState' to 2 within the Game constructor, insuring that the game initiates on the title screen upon invoking the Game class.

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4. Unused/outdated Comments

(Commit ID: 96ea7ed7813dc45e6993b23e41d8b72f8a157ba8)

- Removed numerous unnecessary comments that were affecting the code formatting, enhancing clarity for new readers.

5. Lack of documentation on Test Cases

(Commit ID: 2fe3944210975a3f426e445897ad8b12f308b66f)

 Added documentation for test cases to aid users in understanding the specific responsibilities for each test.

6. Redundant Code

(Commit ID: 503602c149c5b6e2450415c31ac8809f59ad5150)

- Regardless of the result, condition flow will set the game state to pause state.

(Commit ID: 6d423eb4ab85e2d7e7103011119313be2244c267)

 resetTime() function was not needed as the variable was public and accessible by other classes.

7. Confusing Variable Naming

(Commit ID: 5c1f224f55973f8630716efb19248e8c087c30e3)

- The designation "levelN" may cause confusion among new viewers, as it could be misconstrued as referring to the game state level.

8. Confusing Class Hierarchy

(Commit ID: 703e8c15ef014714ab81de6841a0c9a2cbe5a48c)

Introduced a new directory named "raccoon" within the "enemies" folder. This
modification aims to provide clarity regarding the specific type of enemies
loaded as PNGs and allows for the potential inclusion of various enemy types
in the future.

```
upImages.add(ImageIO.read(getClass().getResource("/enemies/up/" + i + ".png")));
downImages.add(ImageIO.read(getClass().getResource("/enemies/down/" + i + ".png")));
leftImages.add(ImageIO.read(getClass().getResource("/enemies/left/" + i + ".png")));
rightImages.add(ImageIO.read(getClass().getResource("/enemies/right/" + i + ".png")));
upImages.add(ImageIO.read(getClass().getResource("/enemies/raccoon/up/" + i + ".png")));
downImages.add(ImageIO.read(getClass().getResource("/enemies/raccoon/down/" + i + ".png")));
leftImages.add(ImageIO.read(getClass().getResource("/enemies/raccoon/left/" + i + ".png")));
rightImages.add(ImageIO.read(getClass().getResource("/enemies/raccoon/right/" + i + ".png")));
```