PDF Document for Project 9 Submission: Dan Dover

1. Concept / Idea of my game:

GetFat is a solo Jack-based computer game that tests reaction time and strategy. Players control a circle using arrow keys, avoiding flying squares while collecting smaller circles for points. As the circle grows with each point, avoiding obstacles becomes harder, and increasing levels bring faster flying objects, escalating the challenge.

2. Architecture:

Main.jack:

- Purpose: Serves as the entry point and launcher for the game.

FlyingObject.jack:

- Purpose: Manages the flying objects (both good and bad) that appear during the game.
- Responsibilities: Differentiates between "good" (collectible) and "bad" (obstacle) objects, handling their behaviour accordingly. Manages interactions with the player's character, such as collision detection and scoring.

MyGame.jack:

- Purpose**:**
  Serves as the main game manager, coordinating all components and maintaining the game's flow.
- Responsibilities**:** Initializes and manages game elements, including the player, flying objects, and game state. Runs the main game loop, handling updates, rendering, and player input. Tracks progression, such as level increases and speed adjustments, and manages win/lose conditions.

Startscreen.jack: Displays the initial screen when the game starts, introducing the player to the game. Transition to the main game when the player starts.

EndScreen.jack: Displays the game over screen and presents the player's final score. Allow the player to restart or exit the game.

Random.jack: Provides random number generation for the game.

3. Motivation:

The game was inspired by an online game called "*Tasty Planet"* that I played as a kid. It features a small creature that roams around consuming cars, planes, and other objects. I wanted to incorporate a similar concept, where earning points gradually makes the game harder for the player. Additionally, I love games that test reaction time, so combining these two elements led to the creation of *GetFat*.

4. Google Drive Link to my Video: GetFat Demo

5. Names and Email:

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