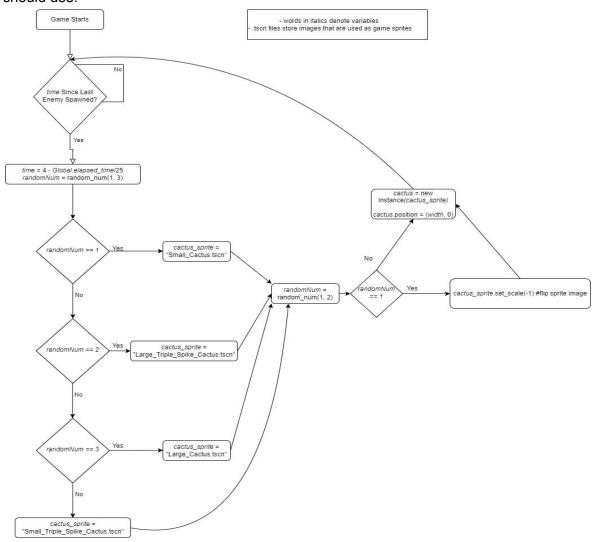
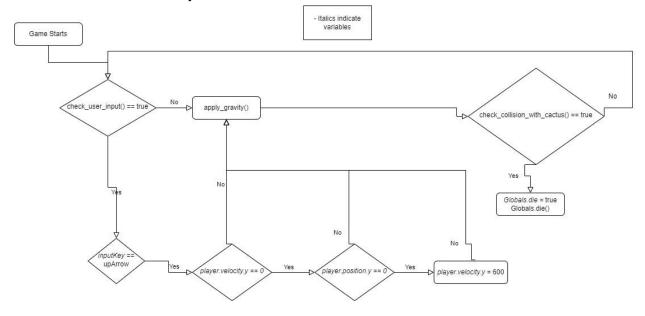
Criterion B: Design

I decided to use Godot's recommended strategy of designing games broken into classes. This structure would have one main class (which I called Ground) that would have every other class (Player, Enemy, etc) be a child of it. Every text label would be its own class and display on screen if a game condition were met (ex: instruction label appearing before the game started). There would be two modules every class could use (AudioStreamPlayer and Global), which contain methods and variables every class could access (ex: the score and the time since the game started). The game loop would be run in the background by the engine. The UML Diagram can be found in Appendix E.

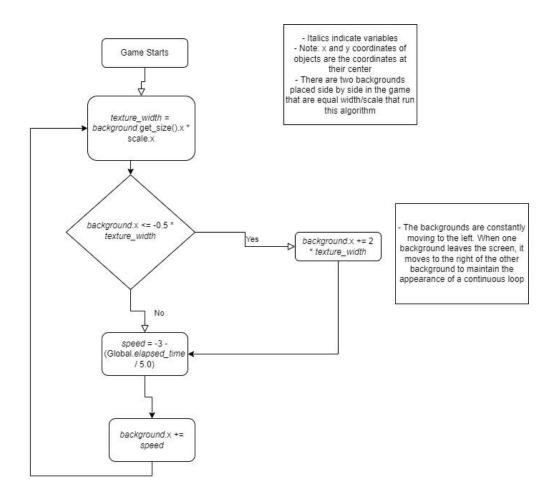
One of the most important algorithms determines when to spawn new cacti and what sprite it should use.



Another one of the main algorithms determines player movement and whether or not a collision has occurred with an enemy cactus.



The final major algorithm I used was to make the background appear as if it was continuously looping and increasing in speed as the game progressed.



Feature to Test	Test Strategy
Scoring System	 Verify that the score doesn't change on the menu screen or when the game is paused Ensure the score goes up once per second with a timer
• Audio	Run game and verify: Startup sound plays on startup Jump sound plays when the player jumps Death sound plays when the player loses
Player Losing the Game	Run game and ensure that the player dies only when the dinosaur hits a cactus
Game Available Online	Go to the the website where the game

	is hosted (https://anonymoustank.github.io/DinosaurGame/index.html) on a different computer and ensure it runs on the major browsers (Firefox, Safari, Chrome, Opera, Brave)
Storing High Scores Persistently	 Achieve a new high score and then close the game Reopen the game and ensure the high score still appears on the screen
Endless Runner Game	 Play the game for as long as possible without dying and ensure that the game keeps going
Looping Background	Ensure there are no visible breaks in the background
Random Cactus Spawning	Ensure that every cactus (after the first) is randomly selected from the 4 sprites available
Keyboard Input	Verify: Enter/Space keys starts the game The R key restarts the game The Escape key pauses the game The Up/W keys make the player jump