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Github Link: https://github.com/ceilingcranes/TurtleGraphicsBattleRoyale

Title: Turtle Graphics Battle Royale

Description: Turtle graphics is often used to teach beginners the basic concepts of programming. I will turn this into a game, where two or more players submit a series of moves for different colored turtles. These moves include turning, stepping forward x units, for-loops, and other options that help teach people about how programming works and what it can be used for. Each turtle leaves a trail over the play field, and if another turtle runs into that trail, that user loses. The players enter their moves with a simple programming language, and the program loops through the directions until there is only one player left, with occasional stops to allow users to modfiy their instructions.

Actors: Players

Functionality:

- 1. Have a screen that displays two turtles and their trailing lines
- 2. Process commands to control a turtle's movements
- 3. Pause after a set number of commands executed to allow users to modify their commands.
- 4. Check for win conditions and notify users
- 5. Accept commands via text input or file inputs
- 6. Verify command validity
- 7. Keep track of: number of moves, wins by either side, and other statistics about the game
- 8. Have the players enter their names and customize the play field

Stretch functionality:

- 1. Allow users to play over the web or from two different computers, rather than all locally
- 2. Allow users to manually pause, modify code, and resume the game
- 3. Add more than 2 players

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