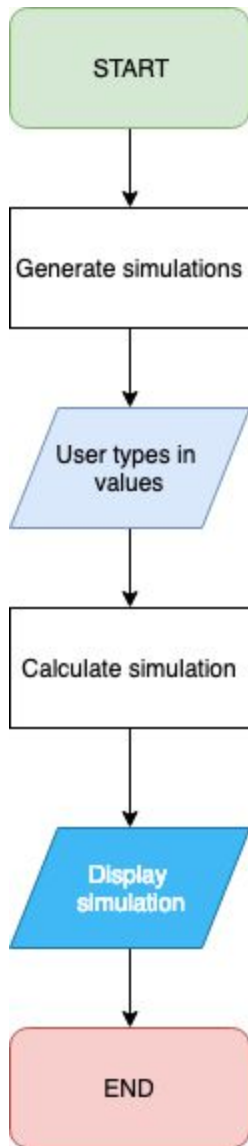
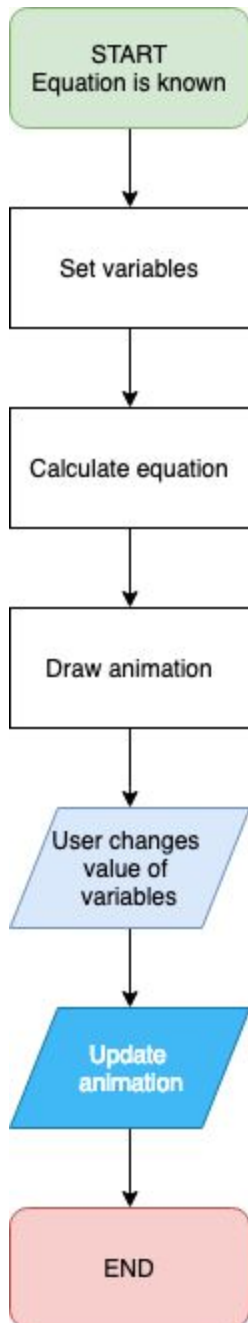


## Criterion B: Design

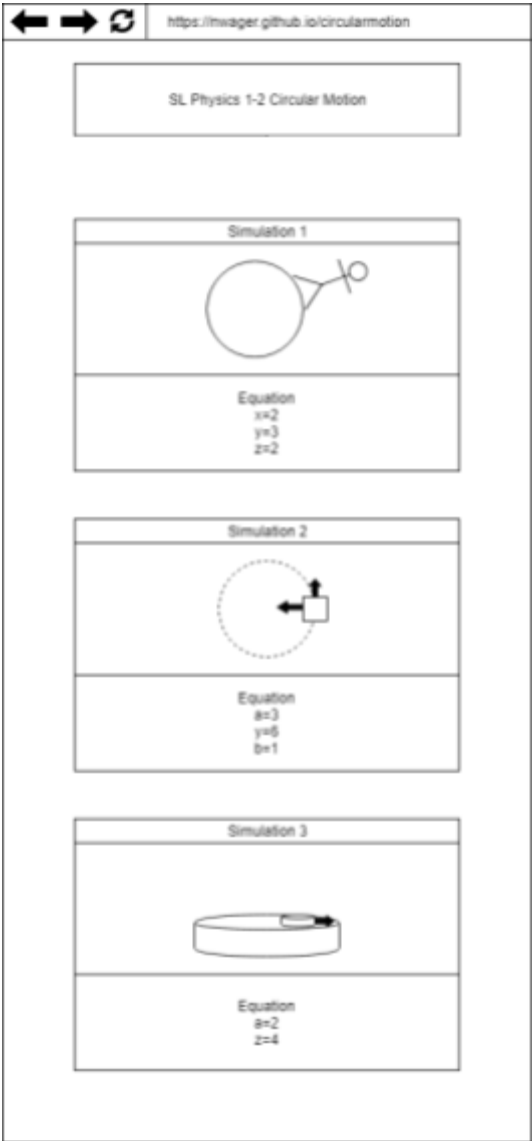
### Flowchart - Main Algorithm



## Flowchart - Focused



User Interface - Website Layout



**Input**

The user will type numbers into input fields. The text will be parsed as an integer.

**Output**

Simulations will be drawn and animated using canvasses in JavaScript and the values of the input fields. The shapes drawn on the canvas will be created using objects with properties and functions.

**Storage**

Numbers will only be stored as floats in temporary variables. Nothing is stored outside of the browser session.

**Test Plan**

Test	Action	Result
Functionality on different browsers	Perform the tests listed below on Chrome, Firefox, and Safari	Program passes tests on each browser
Usability	Let client and other students use the program	Users are able to navigate and understand content of website
Simulation updates based on values	Type three significantly different numbers into each input field	Simulation correctly scales motion and size
Output values are calculated correctly using input values	Type three significantly different numbers into each input field	Output variables are correct for each input value
Simulations can be paused	Click on each simulation, then click again	The simulations stop on the first click, then resume from the same point on the second click

Word count: 186