

Then, answer the following questions in a 'questions.md' file in your repository for this week's homework:

1. What is the difference between a for loop and a while loop?

The “for loop” puts together all your steps into one line of code. While the “while loop” leaves every step as its own code so you have more lines of code.

2. What are the four parts of a for loop? What do they do?

Part 1 = initialization **ex:** `var x = 0;` is telling the code where to start at, **part 2** = boolean **ex:** `while (x <= width)` is telling the code to stop somewhere or keep going., **part 3** = instrumentation operation **ex:** `x = x + 50;` is telling you to add 50 to whatever number x is at that time, **part 4** = For loop **ex:** `(var x = 0; while (x <= width); x = x + 50) {` is putting all the steps into one line of code.

3. What does "nested" mean in the context of nested loops?

Nested means you are adding a loop inside a loop that is already there. So you could have two lines of an object and not just one.