Introductory Java and FTC Programming Workshop

Week 1 - Loops and Functions (Oct. 24)

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Recap of last week


```java
J HelloWorld.java > ...
1    public class HelloWorld {
     Run | Debug
2        public static void main(String[] args) {
3            System.out.println(x:"Hello World");
4        }
5    }
6
```

Recap of last week

```java
J HelloSomeone.java > ...
1    import java.util.Scanner;
2
3    public class HelloSomeone {
     Run | Debug
4     public static void main(String[] args) {
5       Scanner input = new Scanner(System.in);
6
7       System.out.print(s:"What is your name: ");
8       String name = input.nextLine();
9
10      System.out.println("Hello " + name);
11     }
12   }
13 |
```
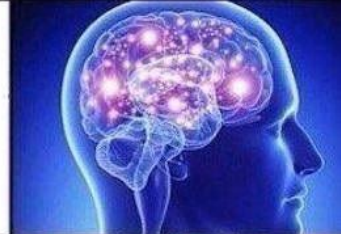
Java Loops

Definite loops
- For loops

Indefinite loops
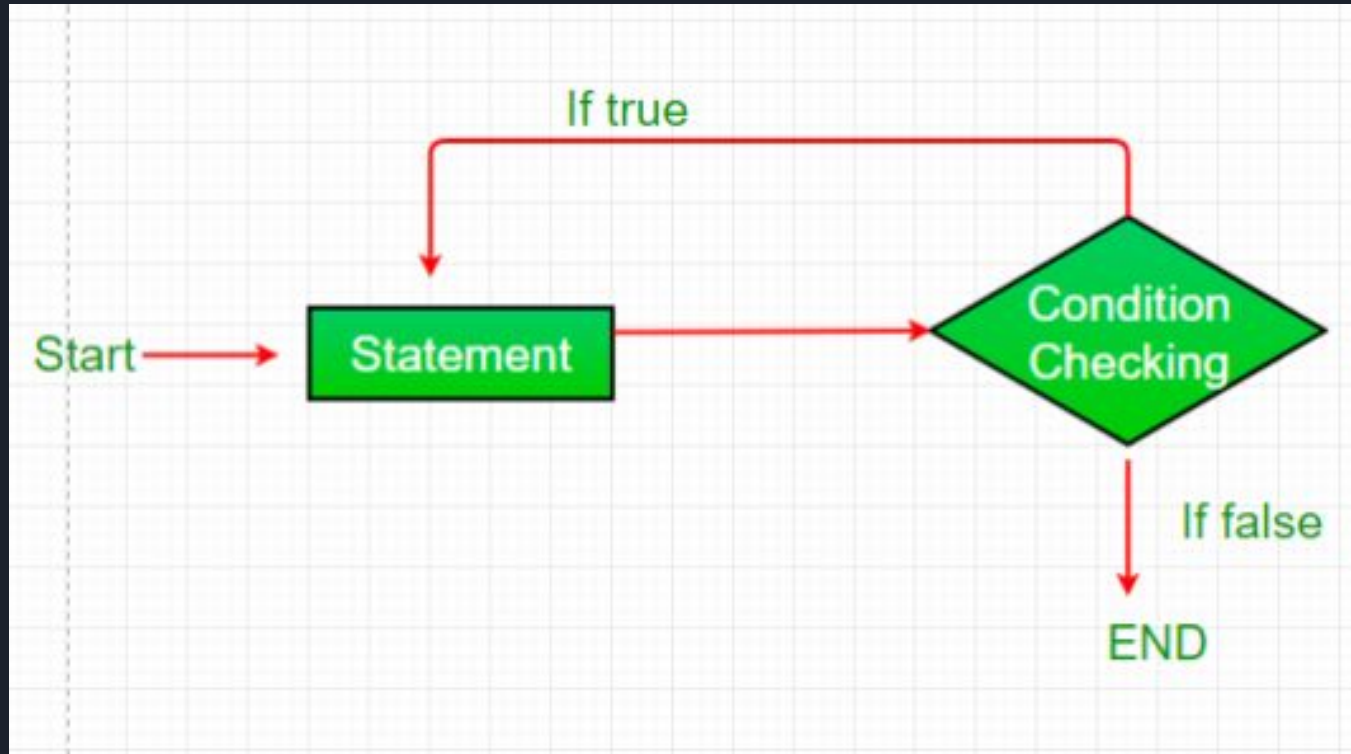- While Loops
- Do While loops
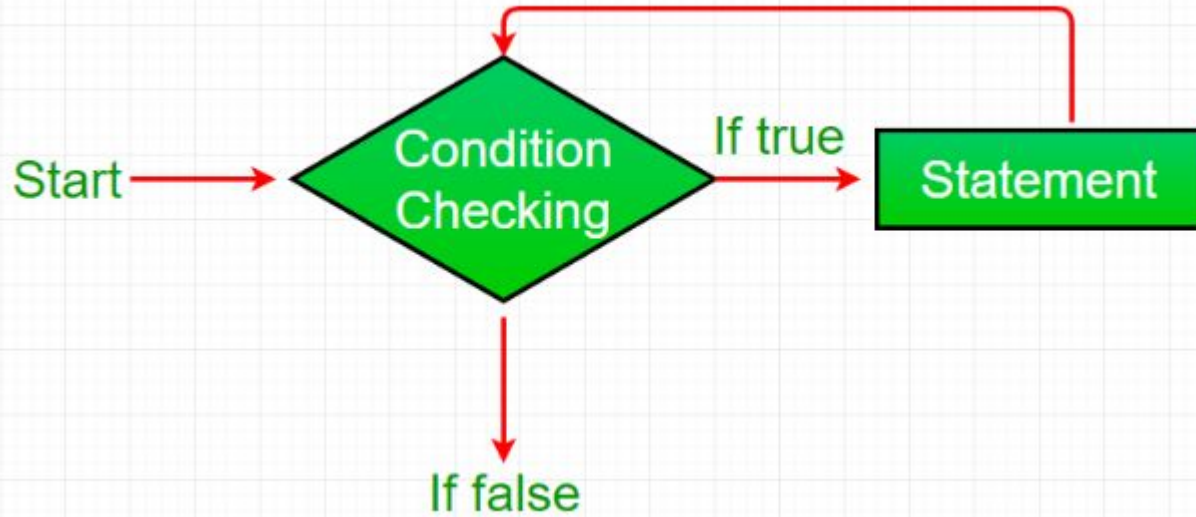
Which loop is this?
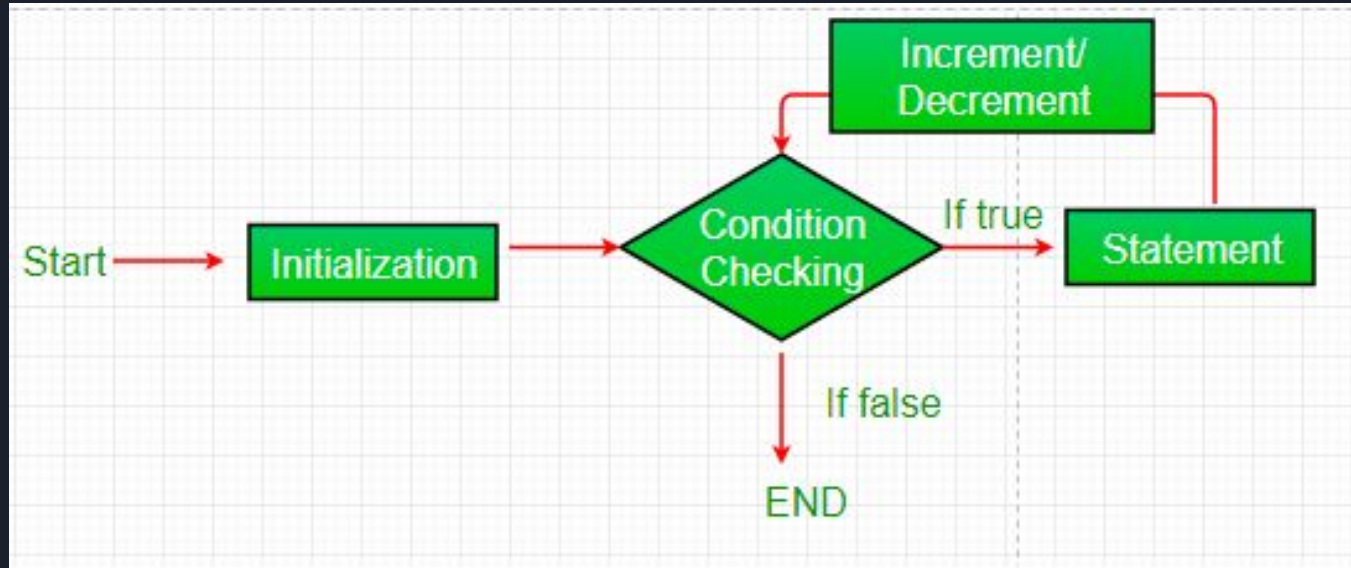
Which loop is this?

Which loop is this?

Programming Challenge

Mario!

1. Have a prompt that asks for an integer
   a. Ensure input is between 1-8
2. Print the Pyramid

Bonus:

Mario+

Programming Challenge (Cont.)

How to solve? Start with Pseudocode

If unsure how to solve the problem itself, break it down into smaller problems that you can probably solve first. For instance, this problem is really two problems:

1. Prompt the user for the pyramid's height
2. Print a pyramid of that height