

# CSE 121 – Lesson 7

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Summer 2023



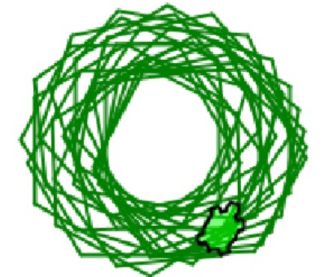
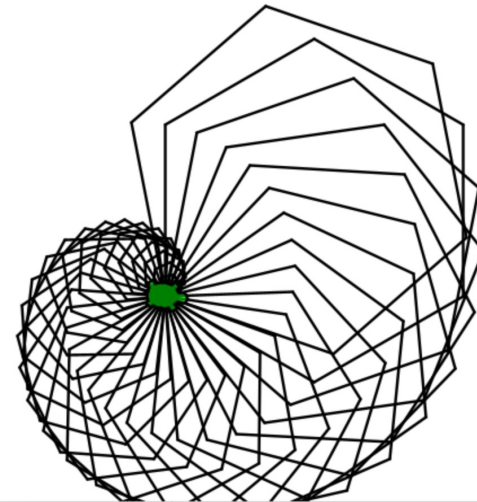
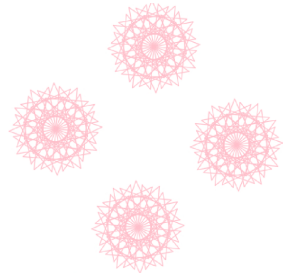
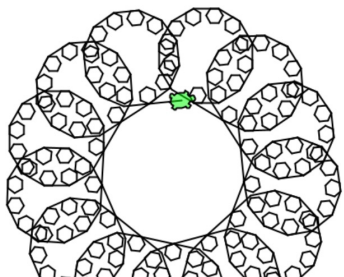
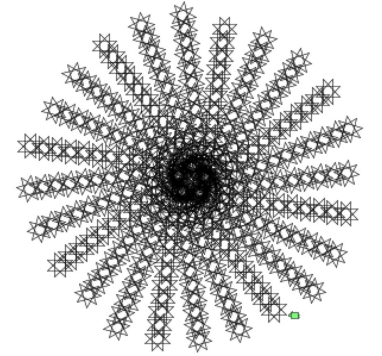
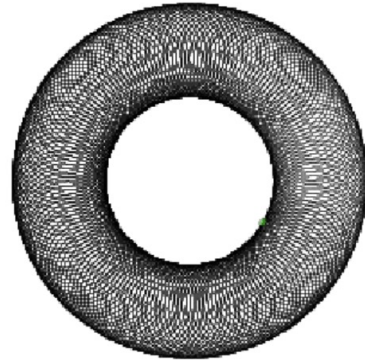
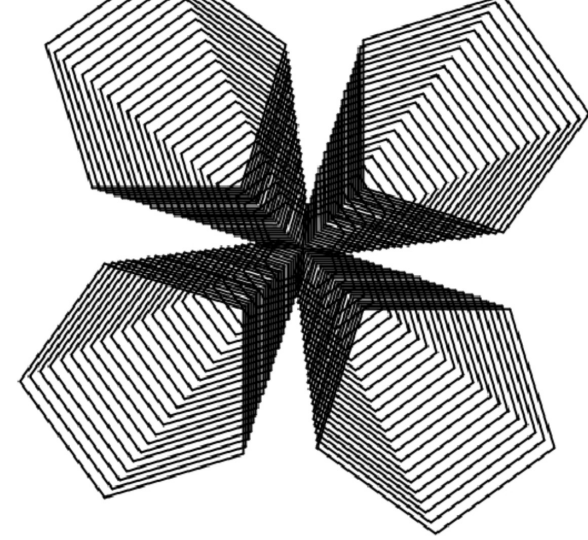
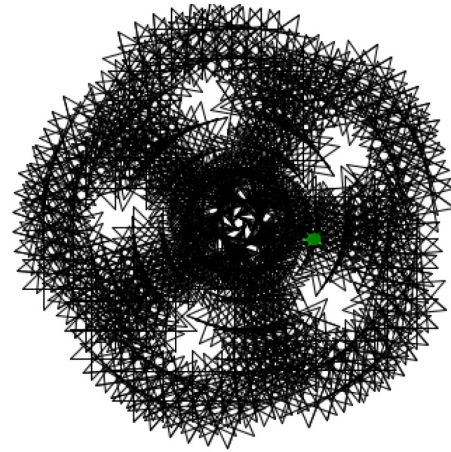
Music:  [k-pop girlies playlist](#) 

[sli.do #cse121](https://sli.do/#cse121)

# Announcements, Reminders

- Programming Assignment 1 Election Simulator released Wed, due next Tuesday 7/18 @ 11:59 PM
  - Don't need content from this week for it, but are free to use it
- Resub 1 was due last night, Resub 2 out and due next Thurs
- Quiz 1 (Take-home): July 7/24
  - I recommend practicing writing these out then typing them up
  - Will be on: Methods (Param & Returns), Conditionals, While Loops, Scanner
- Final exam August 8/16 4:30 – 6:30 PM in PAA A102
  - If you have a conflict reach out ASAP (not all will be granted)!

# Creative Project Showcase!



# Sli.do question

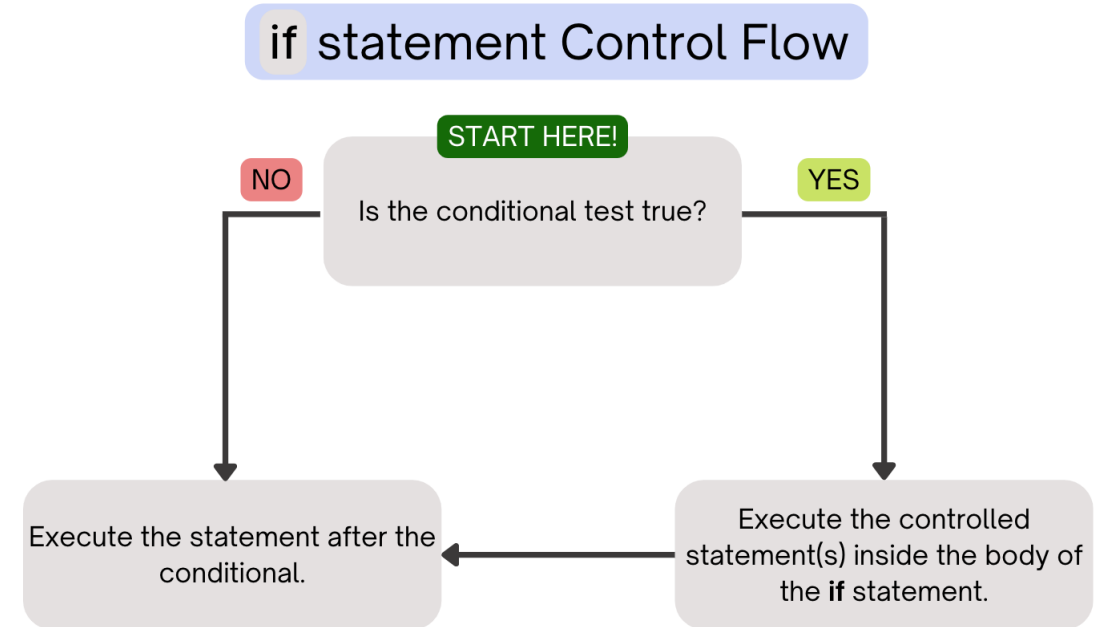
- would it be more efficient to put the println statement of sum within the rollDice method, instead of having to write it out several times in the main method?



# (PCM) Conditionals

```
if ( test ) {  
    body (statements to be executed)  
}
```

Executes a block of statements only if the test is true

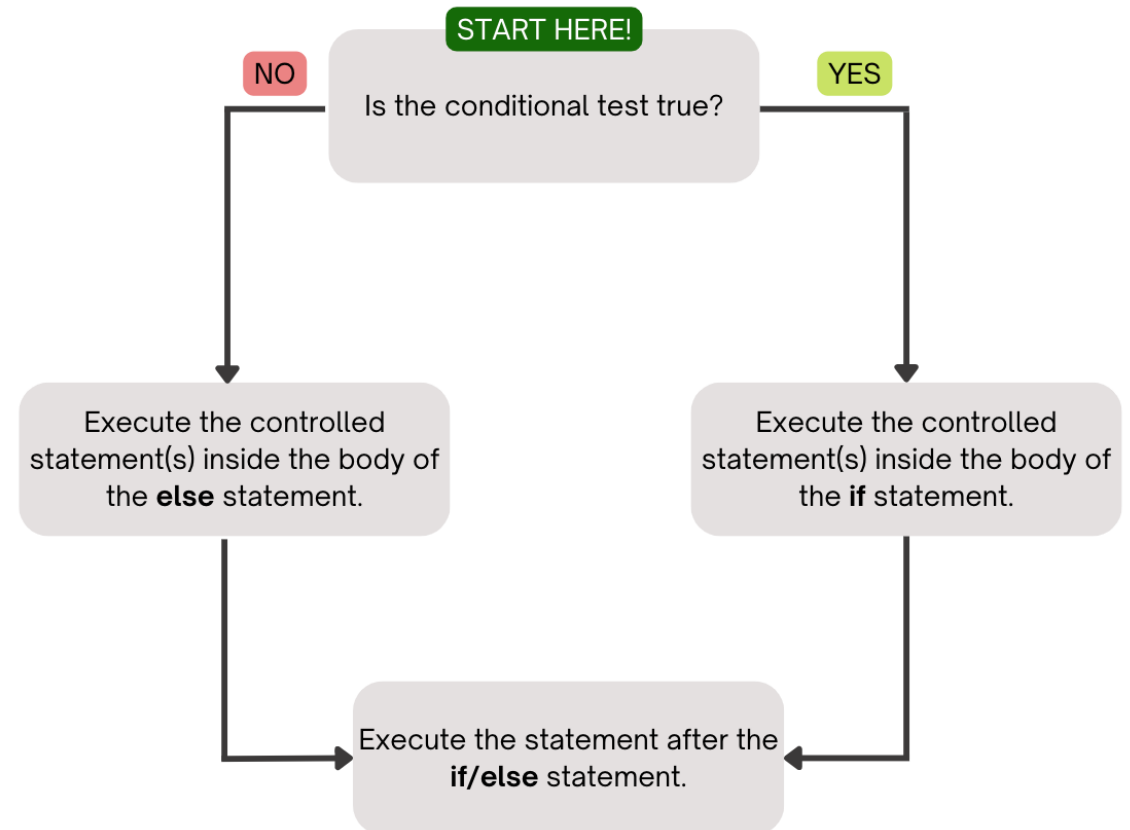


# (PCM) Conditionals

```
if ( test ) {  
    statement(s)  
}  
else {  
    statement(s)  
}
```

Executes a block of statements if the test is true, executes another block of statements if the test is false

## if/else statement Control Flow



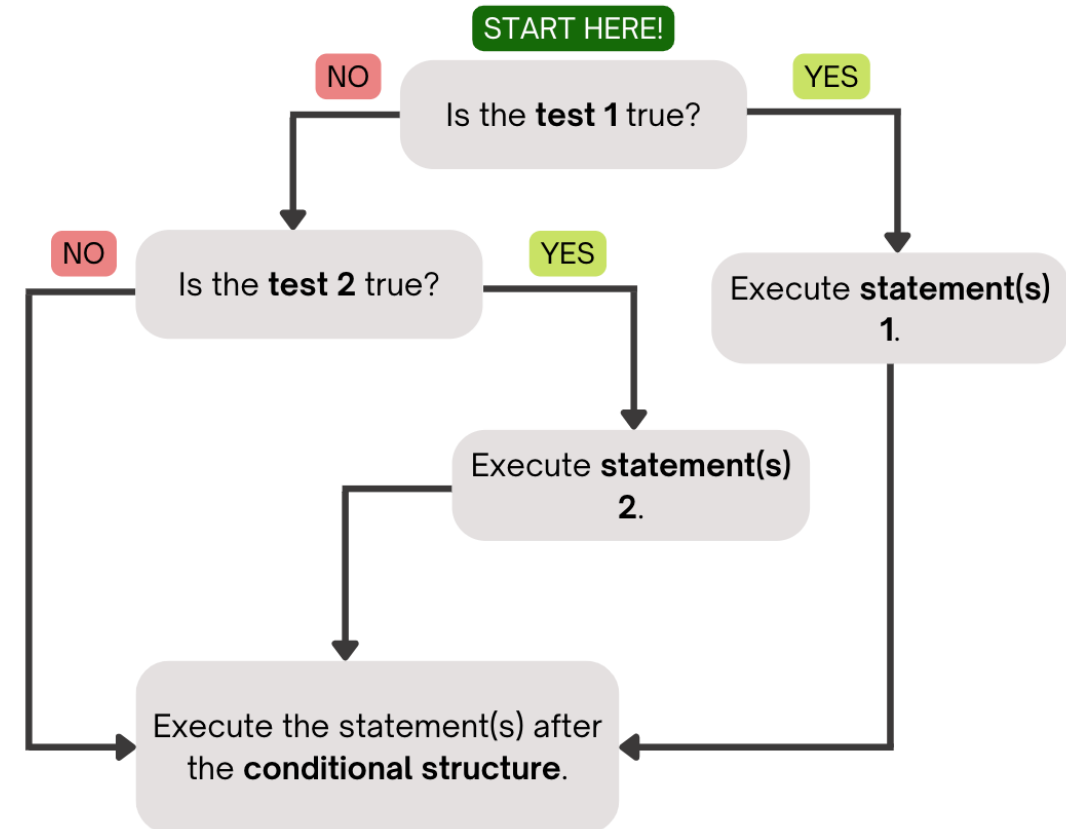
# (PCM) Conditionals

```
if ( test ) {  
    statement(s)  
} else if ( test ) {  
    statement(s)  
}
```

Chooses between a block of statements to execute out of multiple choices, depending on which test it passes

- If it ends in an else, exactly one block will be executed.
- If it ends in an else if, at most one block will be executed, but the code also may not execute any blocks of statements.

## if/else if statement Control Flow





# Poll in with your answer!



What is the output produced by executing this code?

```
int a = 7;
int b = -1;
int c = 12;
if (a < b) {
    a *= 2;
} else if (b < a) {
    a /= 2;
} else {
    a = c;
}
if (c % 2 == 0) {
    c += 1;
}
if (b > 0) {
    b *= -1;
} else if (a < 0) {
    a *= -1;
}
System.out.println(a + " " + b + " " + c);
```

A. 7 -1 12

B. -3 -1 13

C. 3 -1 13

D. 12 1 12

E. -14 1 13



# (PCM) While Loops

```
while (test) {  
    body (statements to be repeated)  
}
```

Repeatedly executes its body as long as its logical test is true.

