CSE 121 – Lesson 10

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Winter 2024

sli.do #cse121-10

TAs:

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Today's playlist:
CSE 121 24wi lecture beats :D

Announcements, Reminders

- Creative Project 2 (C2) deadline extended! Due tomorrow, Feb 8th
  - Note: uses Javadoc!
- Resubmission Cycle 2 (R2) form due tomorrow, Feb 8th!
  - Eligible Assignments: **C0**, P0, C1, P1
- Resubmission Cycle 3 (R3) form releasing tomorrow, Feb 8th
  - Eligible assignments: **P0**, C1, P1, C2
- Programming Assignment 2 (P2) releasing on Friday (due Feb 20th by 11:59 PM)

(Recall) Conditionals 1

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

Executes a block of statements
if and only if the test is true.

Hey! Want some vanilla ice cream?

(Recall) Conditionals 2

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

1. If the test is true: execute block of statements
2. If not, execute other block of statements

Hey! Want some vanilla ice cream?

No? FINE, here's some chocolate ice cream instead.

(Recall) Conditionals 3

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

1. If the first test is true, execute that block
2. If not, proceed to the next test, and repeat
3. If none were true, don't execute any blocks

Hey! Want some vanilla ice cream?

No? Okay, well… do you want some chocolate ice cream instead?

(Recall) Conditionals 4

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

With a **very large** if-else-if-else chain,

- if there is an ending else, exactly one block will execute
- if there is no ending else, zero or one blocks will execute

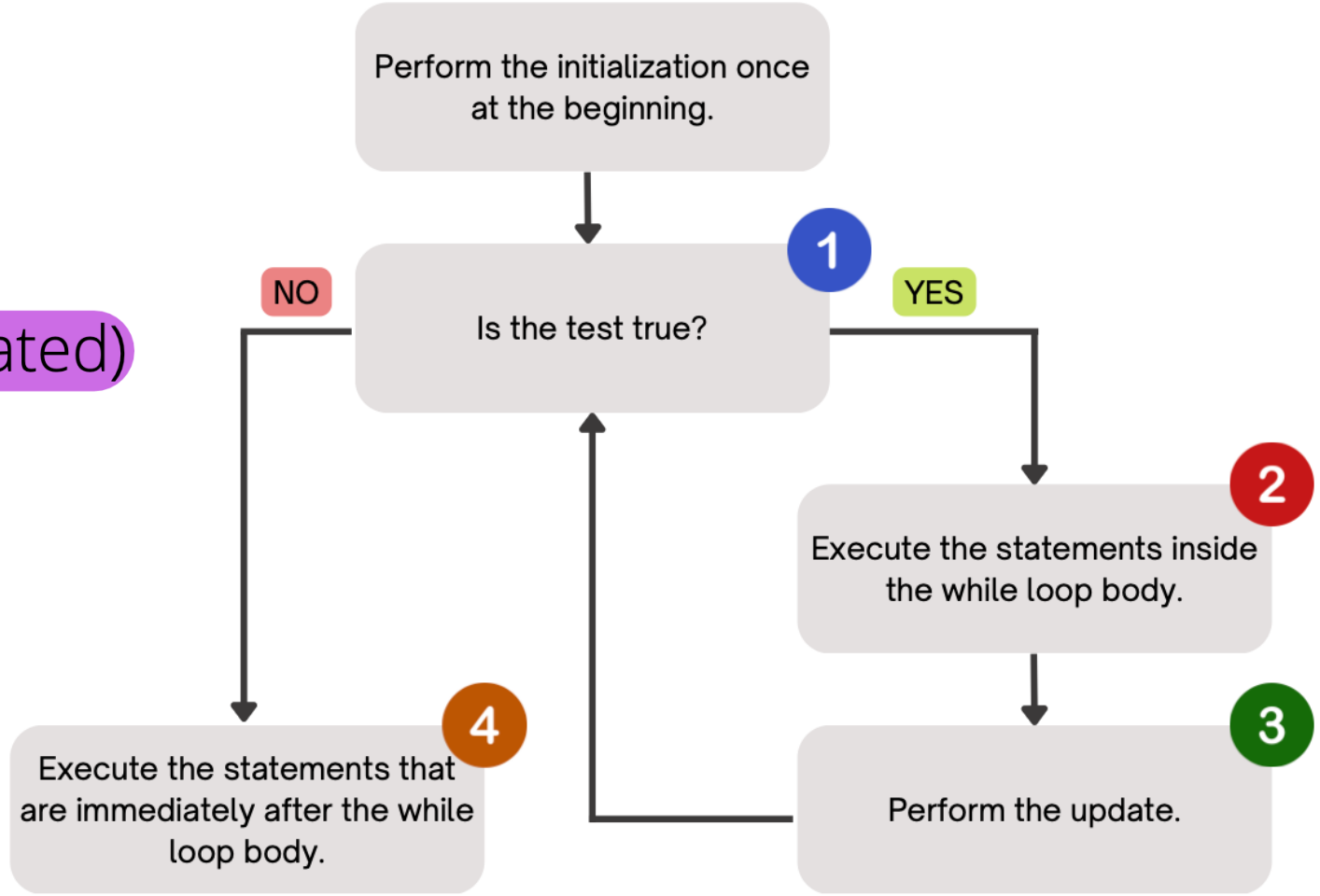
Hey! Want some vanilla ice cream?

No? Okay, want some other ice cream instead? Or another? Or another? Or another? Or another? Or another? Or another? Or another?

(PCM) While Loops

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

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



Poll in with your answer!

How would you describe what the variable x calculates?

```
int roll = -1; // priming the loop
int x = -1;
while (roll != lucky) {
    roll = rand.nextInt(sides) + 1;
    if (x < roll) {
        x = roll;
    }
}
System.out.println(roll + ": It's my lucky number!!!!!!!");
```

A. The largest value rolled
B. The smallest value rolled
C. The last value rolled
D. The first value rolled
E. The sum of all values rolled
F. Error
G. -1