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

```java
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

```java
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

```java
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?
(PCM) While Loops

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

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

1. Perform the initialization once at the beginning.
2. Execute the statements inside the while loop body.
3. Perform the update.
4. Execute the statements that are immediately after the while loop body.

Is the test true?

(NO) 

(YES)
Poll in with your answer!

How would you describe what the variable x calculates?

```java
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