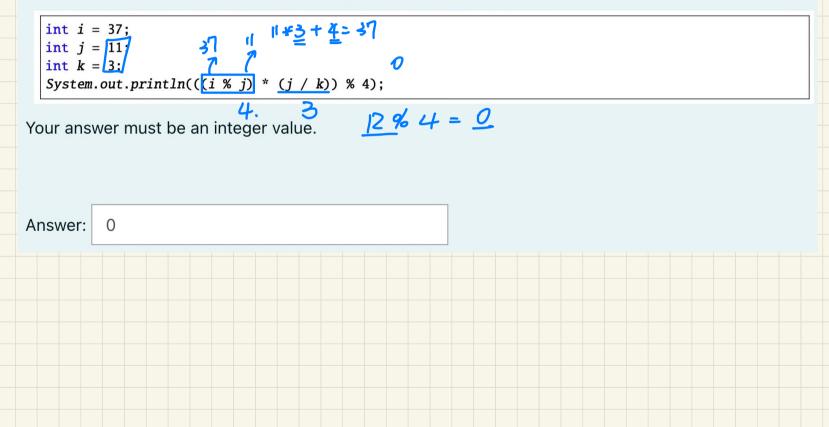
EECS1022 Programming for Mobile Computing (Winter 2021)

Q&A - Lectures W4

Tuesday, February 9

Written Test 1: Practice Questions (1)

What is the console output of the following lines of Java code?



Written Test 1: Practice Questions (2)

Consider the following expressions. Which one(s) contain contain type error(s)?

0

0

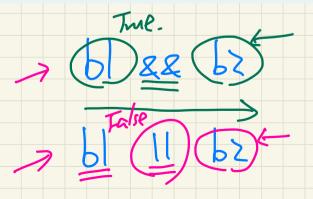
a.
$$((\text{double}) 11 / 3) \oplus \text{"is what?"}$$

b. $\text{"I " + "Love " + 1022"}$
c. $((13 \% 3) + 234") \oplus 56 + ("(13 \% 3) * 234")$
c. $((13 \% 3) \oplus 234") \oplus 56 + ((13 \% 3) * 234")$
c. $((13 \% 3) \oplus 234") \oplus 56 + ((13 \% 3) * 234)$
fit

Written Test 1: Practice Questions (3)

The short circuit evaluation applies to both logical conjunction and logical disjunction. For the following descriptions, choose all that are correct.

- a. In evaluating b1 || b2 at runtime, b2 is only evaluated if b1 is evaluated to true.
- ⇒ 🗹 b. In evaluating b1 || b2 at runtime, b2 is not evaluated as long as b1 is evaluated to true.
- > ✓ c. In evaluating b1 && b2 at runtime, b2 is only evaluated if b1 is evaluated to true.
- ✓ d. In evaluating b1 && b2 at runtime, b2 is not evaluated as long as b1 is evaluated to false.
- ✓ e. In evaluating b1 || b2 at runtime, b2 is only evaluated if b1 is evaluated to false.
 - I. In evaluating b1 && b2 at runtime, b2 is not evaluated as long as b1 is evaluated to true.
 - g. In evaluating b1 || b2 at runtime, b2 is not evaluated as long as b1 is evaluated to false.
 - h. In evaluating b1 && b2 at runtime, b2 is only evaluated if b1 is evaluated to false.



Written Test 1: Practice Questions (4)

Consider the following fragment of Java code (where you can assume that x is declared as an integer variable):

```
if(x != 0 && 10 / x > 5) {
   System.out.println("Outcome 1");
}
else {
   System.out.println("Outcome 2");
```

When running the above Java code, which of the following values for variable **x** will generate the following console output:

Outcome 2

e. 2

```
a. None of the answers is correct.
b. 0
c. 3
d. All of the answers are correct.
```

Written Test 1: Practice Questions (5) granding constraint marplaned

Consider the following fragment of Java code (where you can assume that x is declared as an
integer variable):

if(10 / x >= 5 && x != 0) {
 System.out.println("Outcome 1");
}
else {
 System.out.println("Outcome 2"); X
}

When running the above Java code, which of the following values for variable x will generate the following console output:

Outcome 2

a. All of the answers are correct.

b b O

• •<u>1</u>.

• d. None of the answers is correct.

Written Test 1: Practice Questions (6)

```
Consider the following loop:
for(int i = -49; i < -50; ) {
  System.out.println("Outcome");
}
```

How many times will the stay condition be evaluated (to true or false)?

- a. None of the answers is correct.
- 🗅 b. 101
- 🔘 c. 99
- o d. 100
- 🔍 e. 98
- O f. 0
- 🔘 g. 97

o h. 1