CSE 121
Elba Garza
Winter 2023

Join at slido.com #2565 756
Announcements, Reminders

- **Creative Project 0** due tomorrow (Jan 12th) @ 11:59 PM
- Programming Assignment 0 released tomorrow; Due Jan 17th!
- IPL is open! - [Schedule and instructions](#) can be found on course website.
- **Just joined CSE 121?** Resubmission policy is your friend! See more in [syllabus](#).
- Reminder: Pre-Class Work and Section work are not graded! (but you should do them anyway 😊)
PCM Recap: Data Types & Expressions

• Types: int, double, String, boolean
• Expressions: Operators
• Beware of precedence! (order of operations)
Data Types in Java

In programming, you’re dealing with data...

- ints (whole numbers)
- doubles (real numbers)
- Strings
- booleans (true or false)
Operators (for numerical & String values)

• + Addition
• - Subtraction
• * Multiplication
• / Division
• % Modulo or “Mod”

• + Concatenation
Precedence

Parentheses

Multiplication, Modulo, Division

Addition (and Concatenation), Subtraction

If multiple operators at the same level?

Evaluate subexpressions from left to right!
Work on Expressions/Types Practice Problems
Part 1

• Ed lesson linked from the course calendar
• Work with the folks around you!
• TAs and I will be walking around to help
Mixing Types

• When mixing types in an expression, Java will convert one type to the other and then perform the operation “normally”

• ints can be converted to doubles

• Both ints and doubles can be converted to Strings
Work on Expressions/Types Practice Problems

Part 2

• Ed lesson linked from the course calendar
• Work with the folks around you!
• TAs and I will be walking around to help
Boolean Operators

• ! Logical Not
• <> <= >= Relational Operators
• == != Relational Operators (equality)
• && Logical And
• || Logical Or
Work on Expressions/Types Practice Problems

Part 3

• Ed lesson linked from the course calendar
• Work with the folks around you!
• TAs and I will be walking around to help