

Welcome (back) to CSE 121!



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Miya Natsuhara (just for today) 🍷

Autumn 2022

Music: [Hunter and Miya's Awesome CSE 122 22au Playlist](#)

Plan for Today

- Announcements, Reminders
- Types and Simple Expressions
 - (Review from the Pre-Class Work)
 - int, double, String, boolean
 - Operators
 - Precedence (order of operations)
- Practice!
 - Work with folks around you!
 - TAs and I will be wandering around 😁

Announcements, Reminders

- Please fill out the [Welcome Survey](#) if you haven't done so already!
 - ~50% have responded so far
- [Creative Project 0](#) is due tomorrow night! (Thurs, Oct 6)
- IPL is open!
 - Schedule and instructions can be found on the [course website](#).
- Reminder: Pre-Class Work and Section work are not graded (but you should do them anyway 😁)
- Reminder: Check out the [Syllabus](#) and [Generic Rubric](#) for info about grading in this class.

Questions

For logistical questions, post on the Megathread for today's lecture!
(Members of the course staff will be monitoring)

For questions for *me* during class, raise your hand or submit a
questions anonymously:



or visit: <https://sli.do>

and use **#cse121**

Types in Java

- `ints` (whole numbers)
- `doubles` (real numbers)
- `Strings`
- `booleans` (true or false)

Operators (for numerical and String values)

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

Precedence

- **P**arentheses
- **M**ultiplication, **M**odulo, **D**ivision
- **A**ddition (and Concatenation), **S**ubtraction

If multiple operators at the same level of precedence?

Evaluate subexpressions from L to R

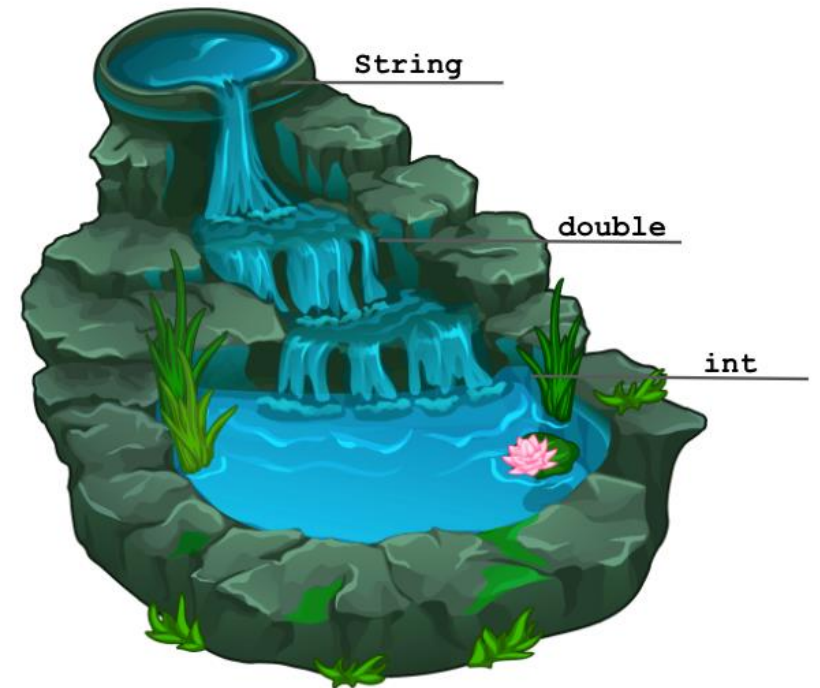
Work on Expressions/Types Practice Problems

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