UNIVERSITY of WASHINGTON

LEC 00

CSE 121

Printing, Strings, and Variables

Questions during Class?

Raise hand or send here

sli.do   #cse121

BEFORE WE START

Talk to your neighbors:

What's your favourite YouTube or Twitch channel to watch?

Music: 121 25wi lecture playlist ❄️

Instructor: Matt Wang

TAs:

Ailsa	Alice	Chloë	Christopher
Ethan	Hanna	Hannah	Hibbah
Janvi	Judy	Julia	Kelsey
Lucas	Luke	Maitreyi	Merav
Ruslana	Samrutha	Sam	Shayna
Sushma	Vivian		

Announcements, Reminders

- Check out website for links to all activities & materials

- Creative Project 0 will be out tonight, due Wednesday, Jan 15th

- Please do the intro survey by Sunday, Jan 12th

    - gives us valuable insight!

    - part of "post-section work" (will explain in a moment!)

    - important that Google Forms works in CSE 121

- New Ed tool: Sandbox (write all the code you want!)

- Matt has office hours today at 1:30! (in CSE 464 and on Zoom)

Aside: office hours as a resource!

The IPL (TA office hours) will open on Monday (Jan 13) at 12:30 PM.

- one of the best parts of the course!

- but, TAs are instructed to <u>not just give you the answer</u>!

  - why not? you wouldn't be learning!

  - e.g. "my code doesn't work" versus
    "I tried X, expected Y, but got Z. Thoughts on what to try next?"

  - also true for Matt's office hours too ;)

Expect an announcement on Ed with a detailed schedule soon!

Assessment

Why assessment?

- Our goal: you gain **proficiency of the concepts and skills** we teach

- We *assess* your proficiency by asking you to apply these concepts and skills on tasks

- By necessity, we are assessing your <u>work</u> as a proxy for proficiency

Resubmissions

Learning takes time and doesn't always happen on the first try!

Each week, one previous assignment or project can be resubmitted

- Must be accompanied by reflection explaining your change(s)

- Grade on resubmission <u>replaces</u> original grade

- Assignments eligible for only 3 "cycles" after feedback released

We'll discuss more after our first assignment is graded. See <u>syllabus</u>!

Post-Section Work (PSW)

A "nudge" system: on section days with no quiz, you'll have a <u>light</u> homework problem and/or set of reflection questions due at midnight.

- **graded on effort** (and intentionally short)
- in quiz section, will do the problem & leave time to reflect
- your reflections are <u>very</u> helpful to your TAs!

If you complete 12/16 post-section works, you'll get an extra resub!

- no direct grade impact, think of it as optional/extra credit
- first PSW is intro survey (w/ special due date, Sunday)

Grading Scheme

Grades should reflect proficiency in course objectives.

All assignments, quizzes, and exams are graded with an "E/S/N" grade:

- **E (Excellent)**

- **S (Satisfactory)**

- **N (Not Yet)**

Grading Assessments

E/S/N (or ESN) grades per assessment type:

- Programming Assignments: 4 ESN grades (4 assignments, 16 total)

- Creative Projects: 1 ESN grade (4 projects, 4 total)

- Quizzes: 3 ESN grades (3 quizzes, 9 total)

- Final Exam: 6 ESN grades

We will also ignore your lowest 2 quiz/final exam grades.

Course Grades

We provide a "minimum grade guarantee" for translating to a numeric grade, but *not* a direct formula.

Much more on this in the syllabus! (and over the next few weeks)

Minimum Grade	Requirements
Total ESN available	33
3.5	27 Es **and** 3 additional S+
3.0	22 Es **and** 5 additional S+
2.5	17 Es **and** 7 additional S+
2.0	21 S+
1.5	14 S+
0.7	8 S+

Collaboration Policy

When we assess your work in this class, we need to know that it's <u>yours</u>. Unless specified otherwise, **all graded work must be completed individually.**
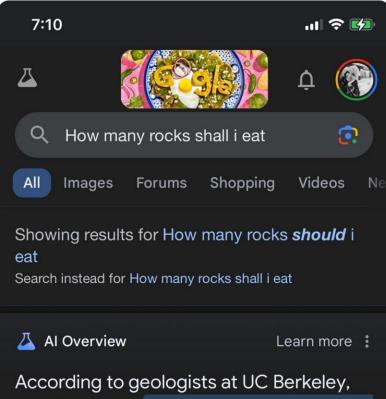
Some rules to highlight:

- do not share your own solution code or view solution code from any source – including (but not limited to) other students, tutors, or the internet

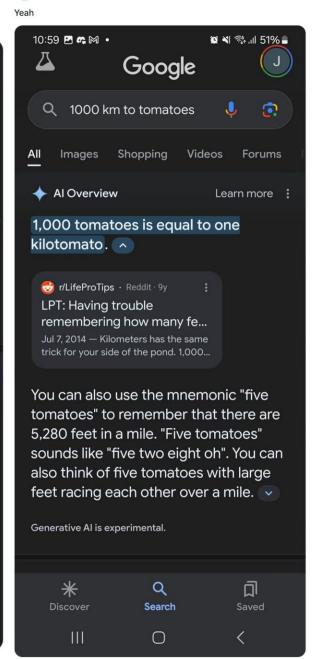- do not use AI tools (e.g. ChatGPT) on graded work in any capacity

See <u>syllabus</u> for more details (this is **very** important to understand).

Courtesy "Glue in Pizza? Eat Rocks? Google's AI Search Is Mocked for Bizarre Answers" by Ian Sherr for CNET. May 24, 2024

Just a bit more on AI...

With generative AI tools, there's a few things going on:

- making sure that your assessed work is <u>yours</u>

  - just the same as other interactive resources

- making sure that you're learning <u>correct</u> information

  - hard for you to judge if you're a beginner!

- potential environmental & ethical concerns

  - outside of scope of 121, but important!

Happy to talk more about this if you'd like! (e.g. in office hours)

Closing the Loop: Inclusive Learning

In the most reductive/short summary, I saw five big buckets:

- small group environments!

- environments that encourage asking questions (and vulnerability)

- genuine and respectful engagement in conversation

- teachers who care and are enthusiastic

- getting to know others in your community (e.g. your peers)

For more, see my "End of Week 0" Ed post!

Practice: Think

sli.do   #cse121

How many lines of output would the following code produce?

```
System.out.println("hello");
System.out.print("moi");
System.out.print("bonjour");
System.out.println("pryvit");
System.out.print("nihao");
System.out.println("hola");
```

a) 1

b) 2

c) 3

d) 4

e) 5

f) 6

Practice: Pair

sli.do   #cse121

How many lines of output would the following code produce?

```
System.out.println("hello");
System.out.print("moi");
System.out.print("bonjour");
System.out.println("pryvit");
System.out.print("nihao");
System.out.println("hola");
```

a) 1

b) 2

c) 3

d) 4

e) 5

f) 6

Escape sequences

escape sequence: a special sequence of characters used to represent certain special characters in a String.

- \" to produce " in a String

- \\ to produce \ in a String

- \n to produce a new line character (or line break) in a String
  - note: in our class, <u>we will ask you not to use this</u>

- and many more!

What's in a (variable) name or String?

Switch over to Ed and do some experiments
(with a partner), then report back on sli.do.

1. What types of characters are "allowed" in Strings?

2. What types of characters are "allowed" in variable names?

sli.do #cse121

Food for Thought!

This is the beginning of a very interesting rabbit hole!

(but also, a decision made by the Java designers)

Whether or not you program for a career,
<u>you will also make decisions like these</u>!

- for example, what's a "<u>valid name</u>"?

- a theme we'll revisit (and something to continuously reflect on!)

Creative Project 0 ("C0"): Hello Bugs?! (1/2)

By release date of assignment, <u>all</u> the relevant content will be covered.

- e.g. C0 is <u>just</u> about printing, strings, and escape characters

Assignments are *partially* about "does your program work", but also:

- tests your ability to read a specification

- is graded on **code quality**

- includes a **graded reflection** (<u>don't</u> leave this to the last minute)

  - some metacognition, some societal impact & ethics content

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Creative Project 0 ("C0"): Hello Bugs?! (2/2)

This specific assignment…

- has two parts: "Basic Task" and "Creative Extension" (do both!)

- has an <u>optional</u> set of code quality slides (to help you practice)

- intentional gentle onboarding to computer programming

  - **<u>is not meant to be time-consuming or stressful</u>**

  - but also, not representative of all assignments (or programs)

We look forward to seeing your bugs!!

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