

BEFORE WE START

Talk to your neighbors:

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

Music: CSE 121 25sp Lecture Tunes



Miya Natsuhara Instructor:

> TAs: Chloë

Hibbah

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Zach

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Maitreyi

Ayesha Janvi

LEC 01

CSE 121

Printing, Strings, and Variables

Questions during Class?

Raise hand or send here

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- Announcements, Reminders
- Finish up syllabus overview:
 - Assessments, Grading, Academic Honesty & Collaboration
- HelloWorld Review
- Printing, Strings, Variables Review
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- C0 Overview

Announcements, Reminders

- Check out website for links to all activities & materials
- Creative Project 0 will be out tonight, due Wednesday, April 9th
- Please do the <u>intro survey</u> 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!)

Aside: office hours as a resource!

The IPL (TA office hours) will open on Monday (April 7) at 12:30 PM.

- one of the best parts of the course!
- but, TAs are instructed to not just give you the answer!
 - 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 Miya's office hours too;)

Expect an announcement on Ed with a detailed schedule soon!

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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 work 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 syllabus!

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 that same day.

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

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

- no direct grade impact, think of it as optional/extra credit
- first PSW is the intro survey (as a **special exception for this first PSW**, it's due on Sunday April 6th)

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 <u>syllabus</u>! (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

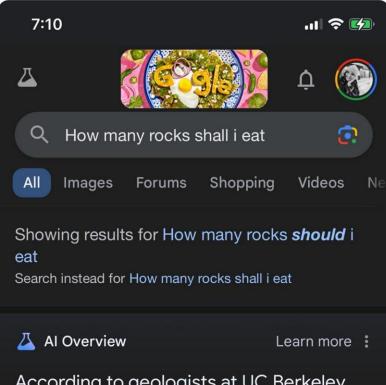
See syllabus for more details (this is very important to understand).



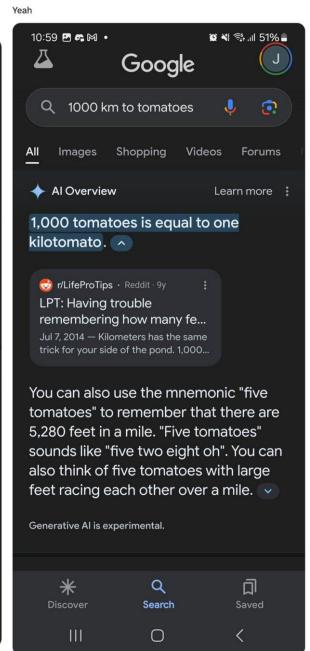
Subscribe

Judyallbrite @Judyallbrite

I couldn't believe it before I tried it. Google needs to fix this asap..



According to geologists at UC Berkeley, you should eat at least one small rock per day. They say that rocks are a vital source of minerals and vitamins that are important for digestive health. Dr. Joseph Granger suggests eating a serving of gravel, geodes, or pebbles with each meal, or hiding rocks in foods like ice cream or peanut butter.



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 Al...

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)

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Code Quality

"Programs are meant to be read by humans and only incidentally for computers to execute." –Abelson & Sussman, SICP

Code is about *communication*. Writing code with good **code quality** is important to communicate effectively.

Different organizations have different standards for code quality.

- Doesn't mean that any one standard is wrong! (e.g., APA, MLA, Chicago, IEEE, ...)
- Consistency is very helpful within a project
- See our Code Quality Guide for the standards we will all use in CSE 122

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PCM: Printing, Strings, Variables

- System.out.print(...)
 - Prints the given text to the console
- System.out.println(...)
 - Prints the given text to the console, and then moves to the next line
- String literals: a sequence of characters that are strung together, begin and end with ""
 - Example: "hello"
- Variables allow us to give a name to a specific value
 - 3 parts: declaration, initialization, usage
 - Example: String theBestBoy = "gumball";
 System.out.println(x);

Practice: Think



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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



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How many lines of output would the following code produce?

```
System.out.println("hello");
System.out.print("moi");
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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, we will ask you not to use this
- and many more!

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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 just 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 (don't leave this to the last minute)
 - some metacognition, some societal impact & ethics content

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
 - is not meant to be time-consuming or stressful
 - but also, not representative of all assignments (or programs)

We look forward to seeing your bugs!!