

LEC 01

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 is your favorite handheld food?***Respond on sli.do!**Music:  [CSE 121 26sp Lecture Tunes](#) **Instructor:** Matt Wang**TAs:**

Abdul	Amogh	Anant	Anum	Cayden
Dalton	Ethan	Hayden	Jesse	Jessica
Johnathan	Minh	Navya	Paul	Reese
Ruslana	Sam	Savannah	Spencer	Shayna
Tamsyn	TJ	Trey		

Agenda (1/6)

- **Announcements, Reminders**
- Hello, World Review!
- Printing, Strings, and Variables
- Code Example
- Syllabus Review
 - Assessments, Grading, Collaboration, and AI
- C0 Overview

Announcements, Reminders

- Links to all materials and activities are available on the [website](#)
- **Creative Project 0 (C0)** will be released tonight
 - due Wednesday, April 8th
- Fill out the [welcome survey](#) by **tonight** at 11:59 PM
 - gives us valuable insight!
 - important that Google Forms works in CSE 121
 - Google Forms [troubleshooting guide](#) on website
- New Ed tool: [Sandbox](#) (write all the code you want!)

Aside: TA Office Hours!

The [IPL](#) (TA office hours) will open on Monday (Apr 6) 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 instructor office hours ;)

Expect an announcement on Ed with a detailed schedule soon!

Agenda (2/6)

- Announcements, Reminders
- **Hello, World Review!**
- Printing, Strings, and Variables
- Code Example
- Syllabus Review
 - Assessments, Grading, Collaboration, and AI
- C0 Overview

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 121

Agenda (3/6)

- Announcements, Reminders
- Hello, World Review!
- **Printing, Strings, and Variables**
- Code Example
- Syllabus Review
 - Assessments, Grading, Collaboration, and AI
- C0 Overview

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 bestClass = "CSE 121";  
System.out.println(bestClass);
```



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");  
System.out.print("namaste");
```

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");  
System.out.print("namaste");
```

a) 1

b) 2

c) 3

d) 4

e) 5

f) 6

Escape Sequences

Escape Sequence: 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!

Agenda (4/6)

- Announcements, Reminders
- Hello, World Review!
- Printing, Strings, and Variables
- **Code Example**
- Syllabus Review
 - Assessments, Grading, Collaboration, and AI
- C0 Overview

Agenda (5/6)

- Announcements, Reminders
- Hello, World Review!
- Printing, Strings, and Variables
- Code Example
- **Syllabus Review**
 - Assessments, Grading, Collaboration, and AI
- C0 Overview

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 replaces original grade
- Assignments eligible for only 3 “cycles” after feedback released

We'll discuss more after our first assignment is graded. See [syllabus](#)!

Section Credit

A “nudge” system: earn **section credit** by completing your pre-section work, **and** by attending and engaging in your quiz section.

- we'll post your pre-section work ~24h before your quiz section
- turn in your answers **on paper, at the beginning of your quiz section.**
- **graded on effort** (and intentionally short)

If you **earn section credit for 11 of the 16 sections**, you'll get an extra resubmission!

- no direct grade impact, think of it as optional/extra credit

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)**
- **[U (Unassessable)]**

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 drop (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
<i>Total ESN available</i>	33
3.5	27 Es and 3 additional S+, <u>no Us</u>
3.0	22 Es and 5 additional S+, <u>no Us</u>
2.5	17 Es and 7 additional S+, <u>no Us</u>
2.0	21 S+
1.5	14 S+
0.7	8 S+

S+ = S or E

Collaboration Policy

When we assess your work in this class, we need to know that it's yours. 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 a way not allowed by our [AI policy](#)

See [syllabus](#) for more details (this is **very** important to understand).

CSE 121 AI Policy

No part of any graded work may touch an AI tool.

You may not copy and paste any work generated by AI into any graded submission, nor may you copy and paste any work from or for a graded assignment into an AI tool. All other uses of AI on graded work must be cited.

ALLOWED

- Asking AI to **explain an error message**
- Asking AI to **explain the functionality of non-graded code** snippets
- Asking AI to **suggest additional information** or resources

PROHIBITED

- **Generating code, comments, reflections**
- Using AI to **'solve' an assignment**
- Using AI to **write, modify, or extend** reflections, code, comments, etc.


AI and CSE 121: Our Philosophy

Computing applications enabled by **artificial intelligence (AI)** are increasingly common and more widely used for a variety of tasks.


It is becoming more difficult to teach an introductory computing course without acknowledging the **existence of AI tools**.

But as first-time programmers, **you still need to learn and practice effectively using core programming ‘building blocks’**.

This is what CSE 121 is for.

 **Kris Kashtanova** ✓
@icreatelife

[Subscribe](#)

 **Judyallbrite**
@Judyallbrite

Yeah

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

7:10

How many rocks shall i eat

All Images Forums Shopping Videos Ne

Showing results for **How many rocks *should* i eat**

Search instead for **How many rocks shall i eat**

AI Overview Learn more

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.

10:59

Google

1000 km to tomatoes

All Images Shopping Videos Forums

AI Overview Learn more

1,000 tomatoes is equal to one kilotomato.

rLifeProTips · Reddit · 9y

LPT: Having trouble remembering how many fe...

Jul 7, 2014 — Kilometers has the same trick for your side of the pond. 1,000...

You can also use the mnemonic "five tomatoes" to remember that there are 5,280 feet in a mile. "Five tomatoes" sounds like "five two eight oh". You can also think of five tomatoes with large feet racing each other over a mile.

Generative AI is experimental.

Discover Search Saved

People also ask

Does Cathay Pacific fly from Seattle to Hong Kong?

How long is the direct flight from Seattle to Hong Kong on Cathay Pacific? A: **Flight duration is typically around 3 hours 45 minutes**. May vary slightly depending on weather and air traffic.

<https://www.makemytrip.com>

[Seattle to Hong Kong Cathay Pacific Flights, Fare, Status & Time Schedule](#)

August 2025

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

The Professors Are Using ChatGPT, and Some Students Aren't Happy About It

Students call it hypocritical. A senior at Northeastern University demanded her tuition back. But instructors say generative A.I. tools make them better at their jobs.



Ella Stapleton said she was surprised to find that a professor had used ChatGPT to assemble course materials. "He's telling us not to use it, and then he's using it himself," she said. Oliver Holms for The New York Times



By **Kashmir Hill**

May 14, 2025

AI & Trust

- we're asking you to **trust** us that not using AI (on graded work) is better for your learning
- in return, we promise you:
 - we will **never** use AI tools to grade your work
 - a human reads, reviews, and provides feedback on **everything** you submit
 - the *only* ways course staff use AI in this class are recording transcriptions, spellcheckers, and [OCR](#)

[*The Professors Are Using ChatGPT, and Some Students Aren't Happy About It,*](#)

Kashmir Hill, May 14, 2025, The New York Times.

Much More About AI – Talk To Us!

- we need to make sure that the work we assess is yours
- as a beginner, hard to know if the information you're learning is correct
- if using AI in the future, you need to make sure that the output is **correct** (or fix it) – and you can *only* do that by knowing what the code does

And, much more we cannot get into right now:

- many helpful uses of AI!
- ethical concerns *related* to the creation and use of AI
- negative outcomes, from the [environment](#) to [mental health](#) or [class culture](#)

Have questions? Talk to us!

Agenda (6/6)

- Announcements, Reminders
- Hello, World Review!
- Printing, Strings, and Variables
- Code Example
- Syllabus Review
 - Assessments, Grading, Collaboration, and AI
- **C0 Overview**

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

By release date of assignment, all 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:

- test your ability to read a specification
- are graded on **code quality**
- include 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 optional set of code quality slides (to help you practice)
- intentionally 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!!**