Welcome to CSE 142!

Brett Wortzman/Kasey Champion

Winter 2022

PAUL G. ALLEN SCHOOL
OF COMPUTER SCIENCE & ENGINEERING

Agenda

- About us
- About this course
  - Learning objectives
  - Other similar courses
  - Course components
- Our learning model
- Tools and resources
  - Course Website
  - Ed
  - PollEverywhere
- Assessment and grading
- Collaboration

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Hi, I’m Brett! (he/him)

- Assistant Teaching Professor
- Frequent 142 instructor
- Also interested in CS education/pedagogy
- Previously:
  - trained CS teachers
  - developed CS curriculum
  - taught high school CS
  - worked as a software engineer

Hello!

I am Kasey Champion

(she/her)

Technical Program Manager @ Google

> Kasey has to go to her “real job” during the day ☹

Previously: Technical Interview Content Team Lead @ Karat

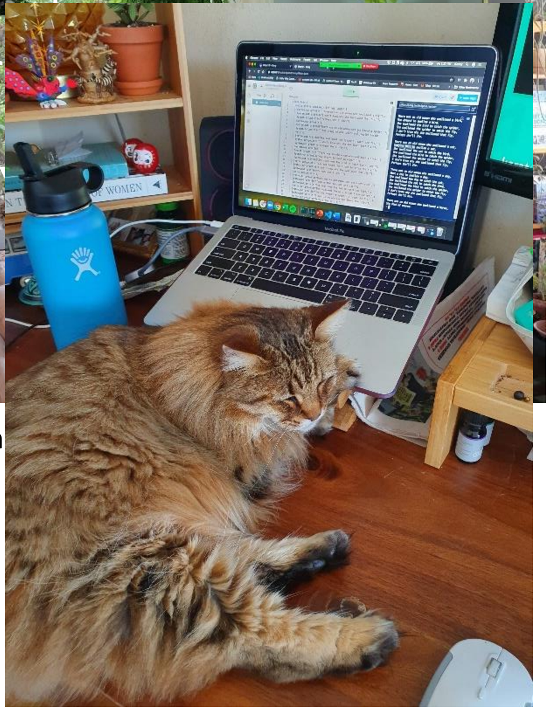
Previously: Software Engineer @ Microsoft

Electrical Engineering and Computing @ UW

champk@cs.washington.edu @techie4good

https://calendly.com/kasey-champion

Kasey’s pandemic coping mechan



If we Zoom, you will probably meet Mercy

Meet (most of) your TAs

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  - Zoom
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  - Discord
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Learning Objectives

or, "What will I learn in this class?"

- **Functionality/Behavior:** Write functionally correct Java programs that meet a provided specification and/or solve a specified problem
- **Functional Decomposition:** Break down problems into subproblems that are modular and reusable, and define methods to represent those subproblems
- **Control Structures:** Select and apply control structures (e.g. methods, loops, conditionals) to manage the flow of control and information in programs
- **Data Abstraction:** Select and apply basic data abstractions (e.g. variables, parameters, arrays, classes) to manage and manipulate data in programs
- **Code Quality:** Define programs that are well-written, readable, maintainable, and conform to established standards

Other Similar Courses

Course	Good choice if…
CSE 142	• You've never programmed before OR • You've done a little programming but feel rusty or not confident AND • You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 143	• You've programming in Java before OR • You took AP CS A or IB CS in high school
CSE 143X	• You've programmed a lot before *in a language other than Java* OR • You are confident you can pick up new concepts very quickly OR • You *really, really* need to get through two courses in one quarter
CSE 160	• You've never programmed before AND • You're interested in data science and analysis OR • You'd rather learn Python than Java* OR • You are, or want to be, in a major such as Physics, Bio, Stat, etc. where analyzing data through programming is useful

Course Components

Lessons (aka Lectures)

- MWF, 11:30 or 3:30
- Held live in KNE*; recordings released after
- First introductions to course concepts
- Mix of presentation of content and practice activities/problems
- Occasional pre-work

Sections

- Th, various times
- Led by TAs
- Held live in person*; ***not*** recorded
  - Materials will be released online afterwards
- Additional review, discussion, and practice
- Mostly practice problems

Attendance is not taken, but you are responsible for all material (including announcements).

**except for week 1*

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FLYING PIGEON

Digression: My Pandemic Hobby

Amigurumi: Japanese art of creating crocheted or knitted stuffed toys

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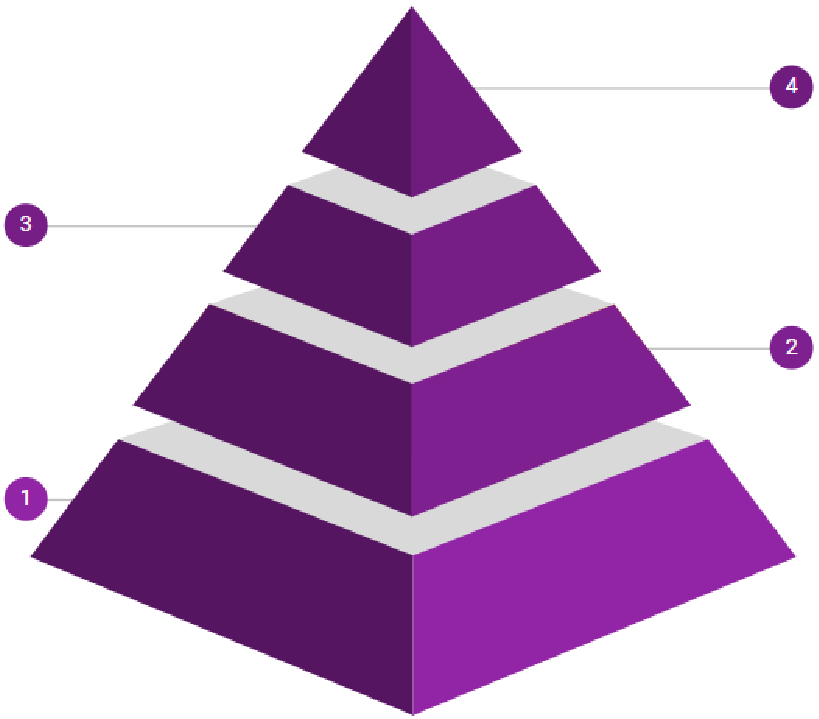
Learning in CSE 142 (or anywhere)



Exposure
Lessons, videos, textbook

Encounter concepts for the first time.
See examples and ask questions.
Nowhere near mastery!

Guided Practice
Lesson activities, sections, labs

Practice with support from course staff.
Learn by doing: make mistakes and learn from them.
Start to develop mastery.

Independent/Group Practice
Checkpoints, section problems, additional practice

Practice on your own or with classmates.
Continue to **learn by doing.**
Get close to mastery.

Assessment
Take-home assessments

Build on the scaffolding from 1-3.
Still learning by doing: you're not done!
Demonstrate your mastery
(even if it's still developing).

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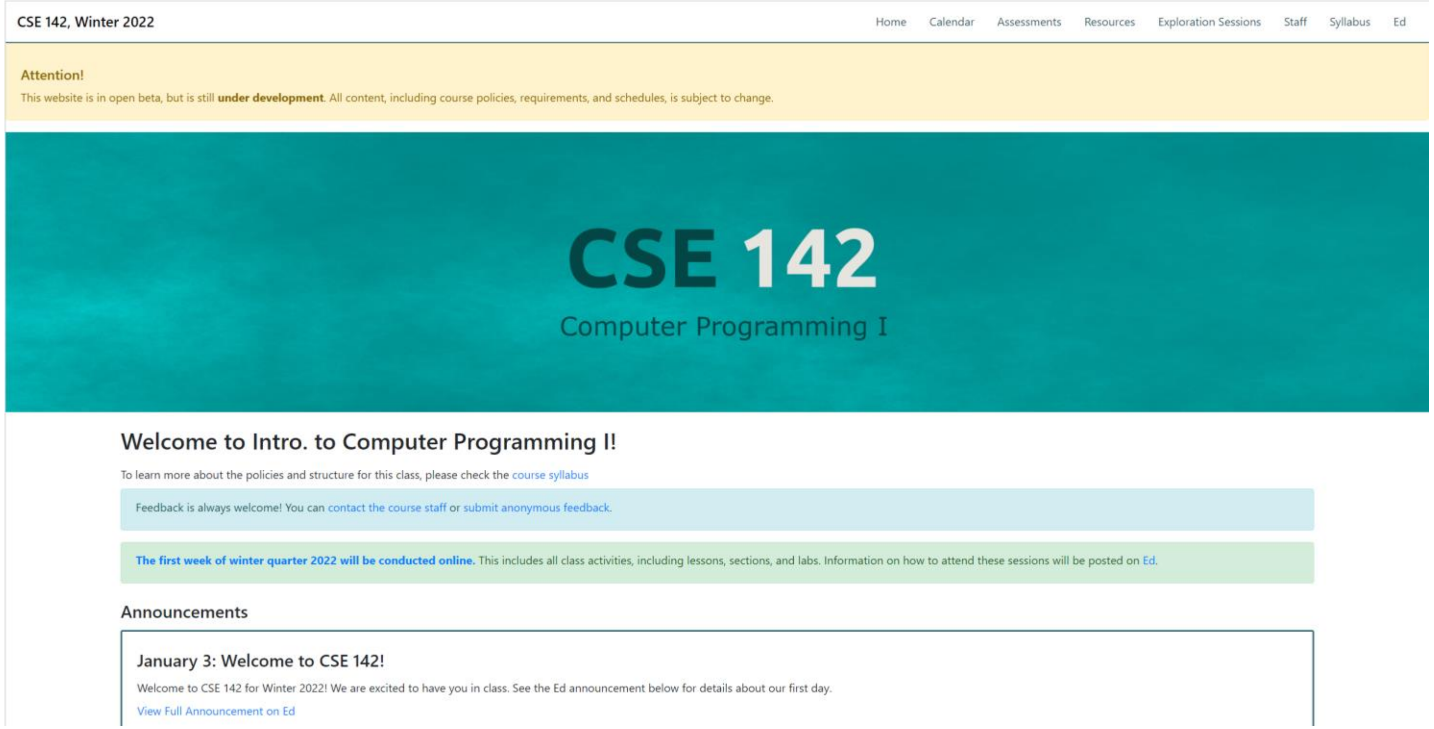
Course Website

cs.uw.edu/142

- Primary source of course information (*not* Canvas)
- Calendar will contain links to (almost) all resources



Attention!

This website is in open beta, but is still **under development**. All content, including course policies, requirements, and schedules, is subject to change.

CSE 142

Computer Programming I

Welcome to Intro. to Computer Programming I!

To learn more about the policies and structure for this class, please check the course syllabus

Feedback is always welcome! You can contact the course staff or submit anonymous feedback.

The first week of winter quarter 2022 will be conducted online. This includes all class activities, including lessons, sections, and labs. Information on how to attend these sessions will be posted on Ed.

Announcements

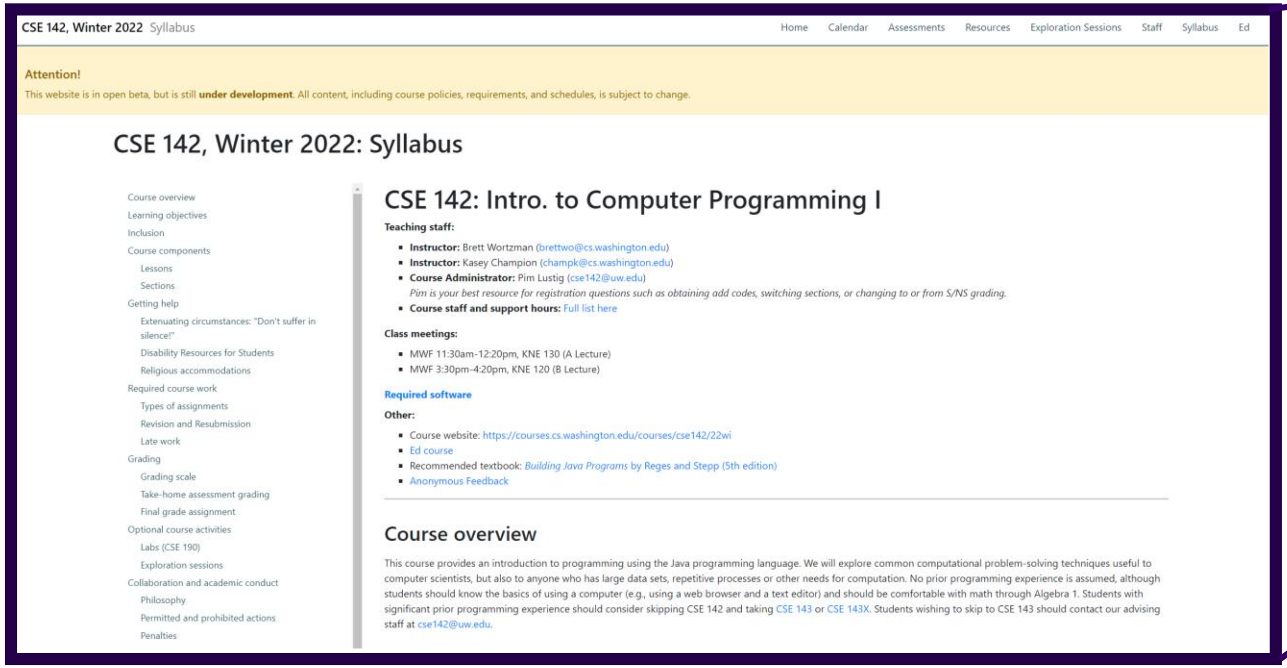
January 3: Welcome to CSE 142!

Welcome to CSE 142 for Winter 2022! We are excited to have you in class. See the Ed announcement below for details about our first day.

View Full Announcement on Ed

Course Website

Please review the syllabus ASAP.



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CSE 142, Winter 2022: Syllabus

- Course overview
- Learning objectives
- Inclusion
- Course components
  - Lessons
  - Sections
- Getting help
  - Extenuating circumstances: "Don't suffer in silence!"
  - Disability Resources for Students
  - Religious accommodations
- Required course work
  - Types of assignments
  - Revision and Resubmission
  - Late work
- Grading
  - Grading scale
  - Take-home assessment grading
  - Final grade assignment
- Optional course activities
  - Labs (CSE 190)
  - Exploration sessions
- Collaboration and academic conduct
  - Philosophy
  - Permitted and prohibited actions
  - Penalties

CSE 142: Intro. to Computer Programming I

Teaching staff:

- **Instructor:** Brett Wortzman (brettwo@cs.washington.edu)
- **Instructor:** Kasey Champion (champk@cs.washington.edu)
- **Course Administrator:** Pim Lustig (cse142@uw.edu)
  Pim is your best resource for registration questions such as obtaining add codes, switching sections, or changing to or from S/NS grading.
- **Course staff and support hours:** Full list here

Class meetings:

- MWF 11:30am-12:20pm, KNE 130 (A Lecture)
- MWF 3:30pm-4:20pm, KNE 120 (B Lecture)

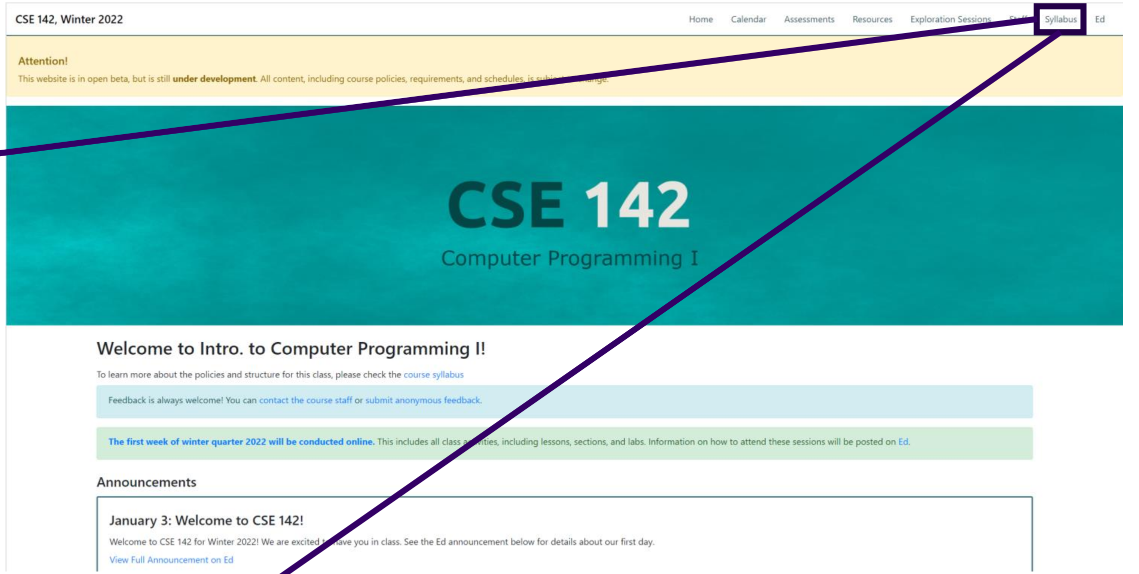
Required software

Other:

- Course website: https://courses.cs.washington.edu/courses/cse142/22wi
- Ed course
- Recommended textbook: *Building Java Programs* by Reges and Stepp (5th edition)
- Anonymous Feedback

Course overview

This course provides an introduction to programming using the Java programming language. We will explore common computational problem-solving techniques useful to computer scientists, but also to anyone who has large data sets, repetitive processes or other needs for computation. No prior programming experience is assumed, although students should know the basics of using a computer (e.g., using a web browser and a text editor) and should be comfortable with math through Algebra 1. Students with significant prior programming experience should consider skipping CSE 142 and taking CSE 143 or CSE 143X. Students wishing to skip to CSE 143 should contact our advising staff at cse142@uw.edu.



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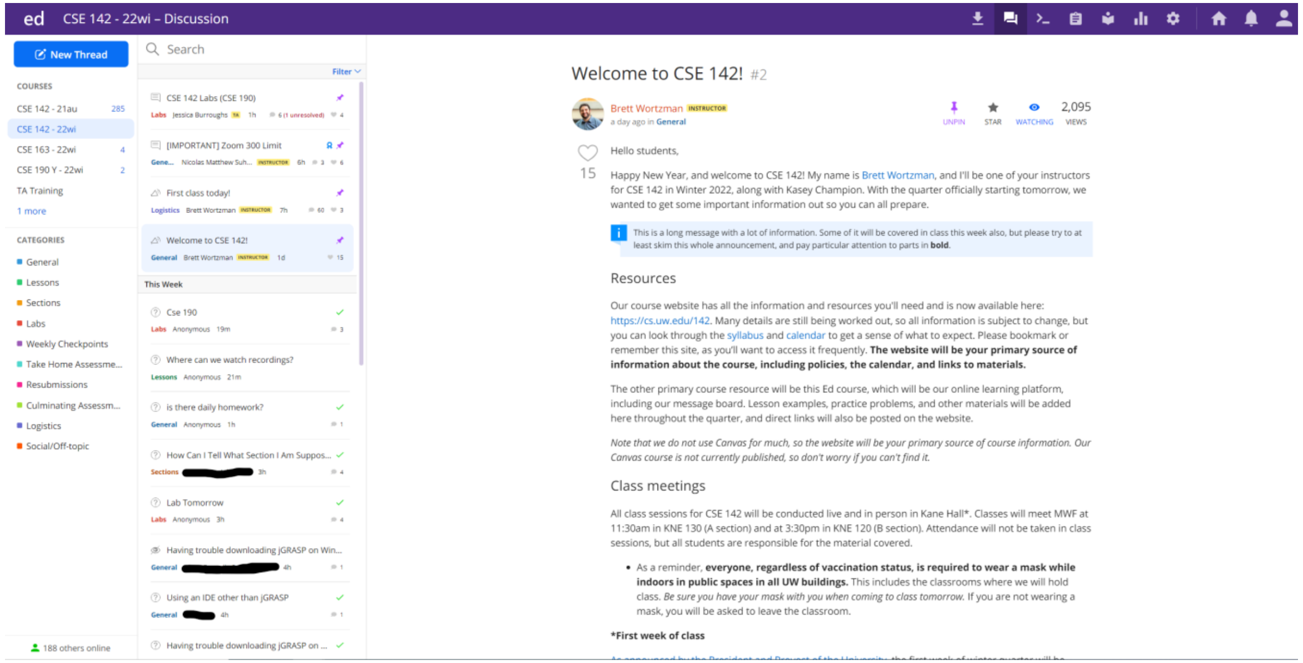
Ed

- Our online learning platform
- Lessons, sections, labs, assessments all here
- Intro and walkthrough video forthcoming



ed CSE 142 - 22wi – Discussion

New Thread

Search

Filter

COURSES

CSE 142 - 21au	285
CSE 142 - 22wi	
CSE 163 - 22wi	4
CSE 190 Y - 22wi	2
TA Training	
1 more	

CATEGORIES

- General
- Lessons
- Sections
- Labs
- Weekly Checkpoints
- Take Home Assessme...
- Resubmissions
- Culminating Assessm...
- Logistics
- Social/Off-topic

188 others online

CSE 142 Labs (CSE 190)
Labs Jessica Burroughs TA 1h 6 (1 unresolved) 4

[IMPORTANT] Zoom 300 Limit
Gene... Nicolas Matthew Suh... INSTRUCTOR 6h 3 6

First class today!
Logistics Brett Wortzman INSTRUCTOR 7h 60 3

Welcome to CSE 142!
General Brett Wortzman INSTRUCTOR 1d 15

This Week

Cse 190 ✓
Labs Anonymous 19m 3

Where can we watch recordings?
Lessons Anonymous 21m

is there daily homework? ✓
General Anonymous 1h 1

How Can I Tell What Section I Am Suppos... ✓
Sections [redacted] 3h 4

Lab Tomorrow ✓
Labs Anonymous 3h 4

Having trouble downloading jGRASP on Win...
General [redacted] 4h 1

Using an IDE other than jGRASP ✓
General [redacted] 4h 1

Having trouble downloading jGRASP on ... ✓

Welcome to CSE 142! #2

Brett Wortzman INSTRUCTOR
a day ago in General

UNPIN STAR WATCHING 2,095 VIEWS

15

Hello students,

Happy New Year, and welcome to CSE 142! My name is Brett Wortzman, and I'll be one of your instructors for CSE 142 in Winter 2022, along with Kasey Champion. With the quarter officially starting tomorrow, we wanted to get some important information out so you can all prepare.

This is a long message with a lot of information. Some of it will be covered in class this week also, but please try to at least skim this whole announcement, and pay particular attention to parts in **bold**.

Resources

Our course website has all the information and resources you'll need and is now available here: https://cs.uw.edu/142. Many details are still being worked out, so all information is subject to change, but you can look through the syllabus and calendar to get a sense of what to expect. Please bookmark or remember this site, as you'll want to access it frequently. **The website will be your primary source of information about the course, including policies, the calendar, and links to materials.**

The other primary course resource will be this Ed course, which will be our online learning platform, including our message board. Lesson examples, practice problems, and other materials will be added here throughout the quarter, and direct links will also be posted on the website.

Note that we do not use Canvas for much, so the website will be your primary source of course information. Our Canvas course is not currently published, so don't worry if you can't find it.

Class meetings

All class sessions for CSE 142 will be conducted live and in person in Kane Hall*. Classes will meet MWF at 11:30am in KNE 130 (A section) and at 3:30pm in KNE 120 (B section). Attendance will not be taken in class sessions, but all students are responsible for the material covered.

- As a reminder, **everyone, regardless of vaccination status, is required to wear a mask while indoors in public spaces in all UW buildings.** This includes the classrooms where we will hold class. *Be sure you have your mask with you when coming to class tomorrow.* If you are not wearing a mask, you will be asked to leave the classroom.

***First week of class**

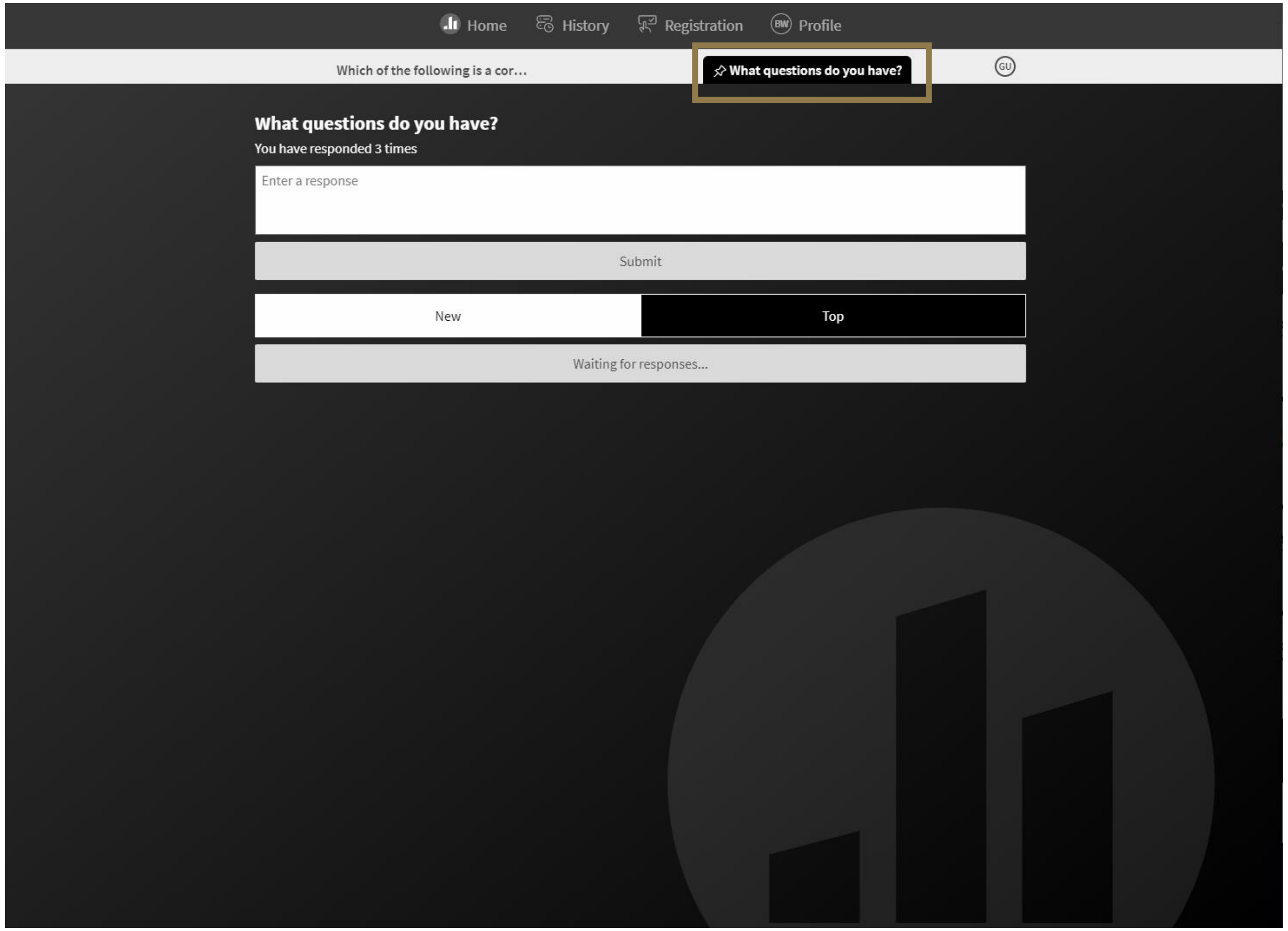
As announced by the President and Provost of the University, the first week of winter quarter will be

PollEverywhere

pollev.com/brettwo

Two purposes (at least):

- Questions backchannel
  - Ask questions at any time
  - I'll check periodically and respond
  - Some may be deferred
    - Answers will be posted on Ed after class


Home
History
Registration
Profile
Which of the following is a cor...
What questions do you have?
GU

What questions do you have?

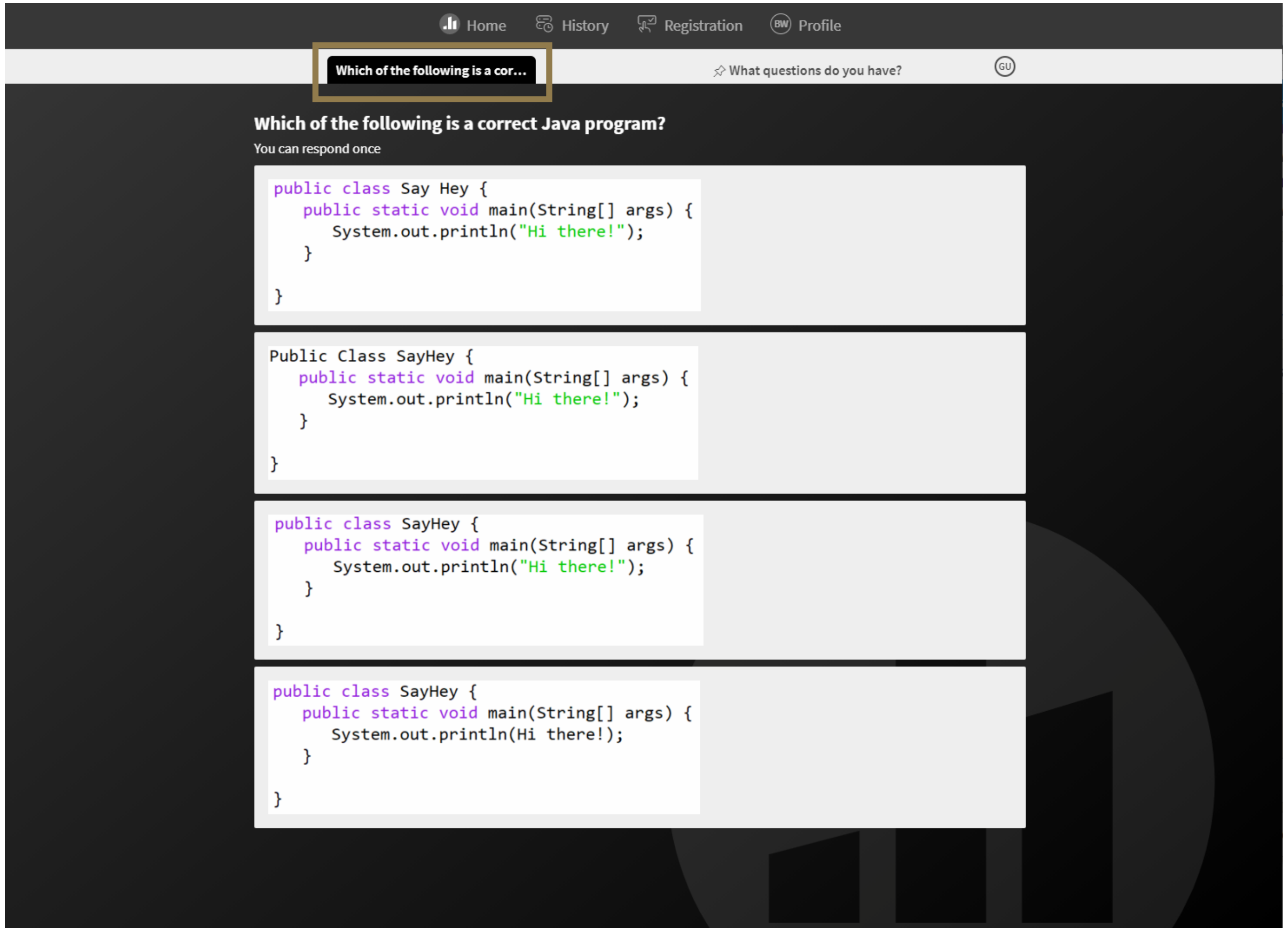
You have responded 3 times

PollEverywhere

pollev.com/brettwo

Two purposes (at least):

- In-class activities
  - Short questions, problems, etc.
  - Usually multiple choice
  - *Not* graded
    - Not even on participation



Which of the following is a correct Java program?

You can respond once

```
public class Say Hey {
   public static void main(String[] args) {
      System.out.println("Hi there!");
   }

}
```

```
Public Class SayHey {
   public static void main(String[] args) {
      System.out.println("Hi there!");
   }

}
```

```
public class SayHey {
   public static void main(String[] args) {
      System.out.println("Hi there!");
   }

}
```

```
public class SayHey {
   public static void main(String[] args) {
      System.out.println(Hi there!);
   }

}
```

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- Assessment and grading ⟵
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Assessment and Grading

- Our goal in the course is for you to **master the concepts and skills** we teach
- We assess your mastery by asking you to apply the concepts and skills on tasks or problems
- By necessity, we are assessing your *work* as a proxy for your *mastery*
- Your final grade should reflect **the extent to which you have demonstrated mastery of the course objectives**

Assessment

- Your learning in this course will be assessed in four ways:
  - **Take-home assessments (~weekly, 8 total)**
    - **Large programming assignments to assess your full mastery of that week's concepts (plus some previous material)**
  - Checkpoints (~weekly, ~10 total)
    - Short problems to help you practice and make sure you've got the basics for the week
  - Culminating assessments (2 total)
    - Series of problems covering all material up to that point
  - Reflections (w/other assignments, 8-10 total)
    - Written assignments to help you think critically about your learning and progress

Resubmission

Learning takes time, and doesn’t always happen on the first try

- One previous take-home assessment can be **resubmitted** each week
  - Initial submission must have been made by original due date
  - Must be accompanied by a write-up describing changes
  - Grade on resubmission will replace original grade

- See the syllabus for more details

Grading

Grades should reflect your mastery of the course objectives

- Checkpoints, culminating assessments, and reflections are graded **S (Satisfactory) or N (Not yet)**
  - If you submit on time and meet all requirements, you'll get an S
- Take-home assessments will be grade **E (Exemplary), S (Satisfactory), or N (Not yet)** on four dimensions:
  - Behavior
  - Structure and Design
  - Use of Language Features
  - Code Quality
- Under certain circumstances, a grade of U (Unassessable) may be assigned
- Final grades will be assigned based on the **amount of work at each level**

- See the syllabus for more details

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Collaboration Policy

Learning is hard, but it's easier when you learn from each other

- You are encouraged to form study groups, work together on practice and review, and discuss your ideas and approaches **at a high level**
- If you discuss your ideas with others, you must **cite them**
- All work you submit for grading **must be your own**
- Any work found to not be your own will receive a grade of **U and may not be resubmitted**
  - If it's not your work, we can't assess your mastery from it

- See the syllabus for more details

Amnesty

Sometimes, we make bad choices that we regret

- “If you submit work that is in violation of the academic conduct policy, you bring the action to Brett's attention within 72 hours of submission and request amnesty. If you do so, you will receive a grade of U for the initial submission, but you **will be allowed to resubmit your work under the normal resubmission process**.”

- See the syllabus for more details