CSE 121 – Lesson 18

Miya Natsuhara
Autumn 2023

Music: 121 23au Lecture Tunes 🐐

TAs:
- Trey
- Christina
- Sahej
- Vinay
- Kriti
- Sebastian
- Colton
- Anju
- Maria
- Minh
- Annie
- Janvi
- Jonus
- Shreya
- Vivian
- Jasmine
- Arkita
- Lydia
- Andy
- Nicole
- Christian
- Vidhi
- Luke
- Nicolas
- Simon
- Lucas
- Ritesh
- Andras
- Shayna
- Jessie
- Logan
- Hibbah
- Archit
- Hannah
- Lydia
- Jacob
- Julia
- Ayesha
- Aishah
- Yijia
Announcements, Reminders

• Resubmission Cycle 7 update: *all assignments eligible for resubmission*
  • Closes on Thursday, Dec 14

• Gumball (& friends) Visit on Monday, Dec 11 1:00pm-3:00pm around Drumheller Fountain & Rainier Vista

• TA-led Final Exam Review Session Tuesday, Dec 12 4:30pm-7:00pm in ARC147

• Final Exam: **Wednesday, Dec 13 12:30pm-2:20pm**
  • Seating charts have been posted!

• Bob Bandes TA Award Nominations Open!

• Course Evaluations open now, and close Sunday Dec 10 at 11:59pm
  • Currently at about 16% response rate!
You did it!!
Learning Objectives

or, “What will I learn in this class?”

- Computational Thinking
- Code Comprehension
- Code Writing
- Communication
- Testing
- Debugging
- Ethics / Impact
String[] args is just a parameter to our main method...but we never call main, so how do we pass anything to args?

When we run our program from the terminal, we can pass "command-line arguments" to the main method, and they become the contents of args.

javac MyProgram.java
java MyProgram these 7 words will go in args
A quine is a computer program which takes no input and produces a copy of its own source code as its only output.
public class Quine {
    public static void main(String[] args){
        char q = 34;   // Quotation mark character
        String[] l = { // Array of source code
            "public class Quine",
            "{",
            "    public static void main(String[] args)",
            "}",
            "    char q = 34;   // Quotation mark character",
            "    String[] l = { // Array of source code",
            "    "",
            "    }
            "};
        for (int i = 0; i < 6; i++) // Print opening code
            System.out.println(l[i]);
        for (int i = 0; i < l.length; i++) // Print string array
            System.out.println(l[6] + q + l[i] + q + ',');
        for (int i = 7; i < l.length; i++) // Print this code
            System.out.println(l[i]);
    }
}
Thank you!

• This is still a very new course! We are always looking for feedback on how to improve the class for you and for future students! Thank you for your patience and understanding as we continue to improve these new assignments, resources, and examples.
  • *We really* value your feedback!
  • Let us know what is or isn't working for you!
  • Something that went well in another course? Tell us about it!

• ...Please fill out course evals by **Sunday Dec 10 at 11:59pm** to provide feedback about the course!
Applications of CS

or “What can I do with what I learned?”

• Detect and prevent toxicity online
• Digitize basketball players
• Help DHH people identify sounds
• Figure out how to best distribute relief funds
• Recognize disinformation online
• Make movies
• Improve digital collaboration
• Fix Olympic badminton & Identify cheating in chess
• And so much more!
## Future Courses

or “What can I do next?”

### Majors

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<thead>
<tr>
<th>Course</th>
<th>Overview</th>
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<tbody>
<tr>
<td>CSE 311</td>
<td>Mathematical foundations</td>
</tr>
<tr>
<td>CSE 351</td>
<td>Low-level computer organization/abstraction 😂</td>
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<tr>
<td>CSE 331</td>
<td>Software design/implementation</td>
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<tr>
<td>CSE 341</td>
<td>Programming languages</td>
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<tr>
<td>CSE 340</td>
<td>Interaction programming</td>
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### Non-majors

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CSE 154</td>
<td>Intro. to web programming (several languages)</td>
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<tr>
<td>CSE 163</td>
<td>Intermediate programming, data analysis (Python)</td>
</tr>
<tr>
<td>CSE 180</td>
<td>Introduction to data science (Python)</td>
</tr>
<tr>
<td>CSE 373</td>
<td>Data structures and algorithms (non-majors)</td>
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<tr>
<td>CSE 374</td>
<td>Low-level programming and tools (C/C++)</td>
</tr>
<tr>
<td>CSE 416</td>
<td>Intro. to Machine Learning</td>
</tr>
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Other tech-related majors:
Informatics, ACMS, Electrical & Computer Engineering, ...

Frequently Asked Questions

• *How can I get better at programming?*
  • Practice!

• *How can I learn to X?*
  • Search online, read books, look at examples :)

• *What should I work on next?*
  • Anything you can think of! ([Here are some ideas](#))
  • *Beware*: it’s hard to tell what’s easy and what’s hard.

• *Should I learn another language? Which one?*
  • That depends—what do you want to do?

• *What’s the best programming language?*
  • 😠 (take CSE 341 or CSE 413)
Thank you!

Ask Me (Almost) Anything!