

CSE 121 Lesson 12: Putting It All Together, Part 1

Matt Wang
Spring 2024



TAs:	Andy	Anju	Archit	Arkita	Autumn	Christian
	Hannah H	Hannah S	Heather	Hibbah	Janvi	Jessie
	Jonus	Julia	Luke	Maria	Mia	Ritesh
	Shayna	Simon	Trey	Vidhi	Vivian	Gumball?

[sli.do #cse121-12](https://sli.do/#cse121-12)

Today's playlist:
[CSE 121 lecture beats 24sp](#)

Announcements and Reminders

- Quiz 1 is tomorrow!
 - many resources available! practice quizzes, [quiz review session](#), starred section problems, Practicelt, and last-minute IPL help
 - if you're sick – please email me before your quiz date
 - today: some more quiz tips from me :)
- R3 due tomorrow (eligible: **P0**, C1, P1, C2)
- P2 due next Tuesday, May 14th

Quiz Tips: Overall

- Prepare for the open-book quiz!
 - consolidate your notes!
 - bookmark helpful practice problems, Ed lessons, and slides
 - before the quiz, clean up your desktop & open relevant tabs
 - reminder: no communication, generative AI – work must be yours
- Budget time during the quiz (45 minutes)
 - spend more time on what was tough during quiz 0
 - leave time to make a submission for each section

Quiz Tips: Debugging & Programming

- Hit run, and hit run often
- Problems are primarily autograded, so make sure your code compiles and runs!
- Grading rubrics are in the spec – read and think strategically!
 - pay special attention to the “S” criteria, especially if low on time
- Testing you on reading the spec (+ debugging, programming)
- Today: how to think about “edge cases”

Edge Cases (and testing, debugging)

When writing a method that takes in input (e.g. parameters, Scanner), think carefully about the assumptions you can (and can't) make!

Edge Case: a situation that is at the “edge” of an input’s valid values.

In today’s example:

- are all possible months and days handled?
 - what about leap years?
- are all possible combinations of months and days handled?

Edge Cases and Types

In languages like Java, it's helpful to think of common edge cases related to the type of the value. For example,

- for numbers (e.g. int, double) can you handle 0?
 - division is especially nasty!
- for Strings, can you handle the empty string ""
 - charAt is especially nasty!

In future programming, you'll learn about many more of these (e.g. "biggest" and "smallest" numbers, null, empty array).