- Announcements
- Nullish Nuance
- Recap of Collections
- Dumb Data Structures
- Collections

Announcements

Resubmission Cycle 5 (R5) out; due Tuesday, Nov 18th by 11:59pm PT

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- Eligible Assignments: P1, P2
- Programming Assignment 3 (P3) out tonight!
 - Due Nov 20th by 11:59pm PT
- Thanksgiving Week Plans
 - Tuesday, Nov 25th: Begin Final Exam review in section
 - Wednesday, Nov 26th: Lecture Cancelled!
- Quiz 2 Thursday, November 20th
 - Practice Quiz 2 out late this weekend, solutions Tuesday
 - Quiz 1 grades out this weekend/early next week?
 - Note: TAs go to sleep at 9pm day before; Ed Board blackout on quiz-related topics during quiz from 8:30am to 4:30pm

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Nullish Nuance

In Java, a reference type* may or may not contain a value

- By definition, null refers to the complete absence of an object
 - Note this is not the same as empty (e.g. "") and not 0!!
- In classes, null is the default value of a reference type field unless otherwise stated

^{*}Objects, Strings, Arrays

Student / Course Example one more time...

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Let's add two more methods to Course.java:

```
public void setCourseEvalLink(String url)
public String getCourseEvalLink()
```

The link to the evaluations for a course doesn't usually exist until the last few weeks of the quarter. What if a client calls getCourseEvalLink before one is set up?

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Goal for Today

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Review some of the data structures we've talked about this quarter

Understand how Java organizes them with interfaces

Collections: What classes have we seen so far?

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• • •

Array, ArrayList, LinkedList, Stack, HashSet & HashMap, TreeSet & TreeMap

Collections: What interfaces have we seen so far?

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Set,
Queue,
List,
Comparable

Lecture Outline

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Collections

Dumb Data Structures

We're going to create our own versions of these classes so we can dig into how they all relate to each other!

BUT they're going to be real dumb.

If you want to get a sense of how they're <u>actually</u> implemented, go take CSE 123!

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IntCollection Relationships

