

The background of the slide is a grayscale image of a circuit board. It features a complex network of black lines representing traces and several solid black circles representing vias or components. The circuitry is arranged in a somewhat symmetrical, horizontal pattern. A solid black horizontal band runs across the middle of the image, partially obscuring the circuit board design. Below this band, the text 'CMSC 131' is displayed in a large, white, sans-serif font. Underneath the course number, the text 'Fall 2018' is written in a smaller, green, monospace-style font.

CMSC 131

Fall 2018

Announcements

- Project #6 has been posted
 - Code distribution includes the prototype for an “incorrect” equals method in the Entrée class. Leave it!
- Exam #2 is on Monday.
- We’ll do some review on Friday.

Javadoc Utility

What is “Javadoc”?

Syntax for Javadoc comments:

```
/**          ...          */
```

Common tags:

- At the top of the class
 - @author
- Above methods
 - @param
 - @return
 - @throws

Demonstration: Invoking the Javadoc utility on a project

Overview of Abstract Data Types

- Linear
 - Sets
 - Trees
 - Graphs
 - Others?
-
- Where do arrays fit in?
 - Sequential vs. Linked allocation
 - Is a linear data type always the best choice?

Java Collection Framework

- What is the “Collection Framework”? (Much more in CMSC 132!)
- Most Collection classes are in package `java.util`

ArrayList

- What is it?
- Java Generics
 - Why not just allow Universal collections?
 - Syntax:

```
ArrayList<T> a = new ArrayList<>();
```

- ArrayList API
- YOU MAY NOT USE ARRAYLIST ON THE CURRENT PROJECT!

Example: [ArrayListExample.java](#)