Enterprise Backend with Java Lambda

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Configure IntelliJ IDEA

- From main screen
- Select Configure -> Project Defaults -> Project Structure
 - Pick JDK 11 for Project SDK
 - Pick 11 for Project language level



Configure IntelliJ IDEA

- From main screen
- Select Configure -> Preferences ->
 - Editor -> General -> Auto Import
 - Checked Add unambiguous imports on the fly
 - Checked Optimize imports on the fly
 - Editor -> General -> Code Folding
 - ONLY show code folding outline checked



Configure IntelliJ IDEA

- Editor -> Code Style -> Java
 - Braces placement
 - All should say Next Line



Random in Java

- import java.util.random
- Random rand = new Random();
- rand.nextInt(); // -max int through max int
- rand.nextInt(5) // 0 through 4



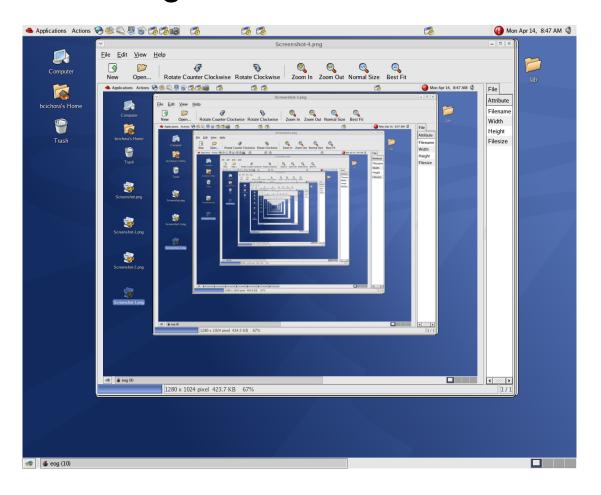
Looping in Java

- For loop break and continue
- While loop
- Do While loop rare, body run at least once. Popular for data entry
- Recursion a thing is defined in terms of itself



Looping in Java

Recursion - a thing is defined in terms of itself





Looping in Java

- Recursion a thing is defined in terms of itself
 - Factorial the product of an integer and the all the integers below it
 - 7! = 7 * 6 * 5 * 4 * 3 * 2 * 1
 - 4! = 4 * 3!

$$3! = 3 * 2!$$

1! = 1 // recursion must have ending point!



- Arrays
 - Objects
 - fixed length
 - fixed data type



- ArraysList
 - Collection
 - Varied length
 - fixed data type
 - Order maintained



- HashMap
 - Collection
 - Varied length
 - fixed data type
 - Order NOT maintained
 - Duplicate Keys NOT allowed / Duplicate Values allowed
 - Key, Value based



- HashSet
 - Collection
 - Varied length
 - fixed data type
 - Order NOT maintained
 - Duplicate Values NOT allowed
 - Value based

