

CMSC 131

Fall 2018



Announcements

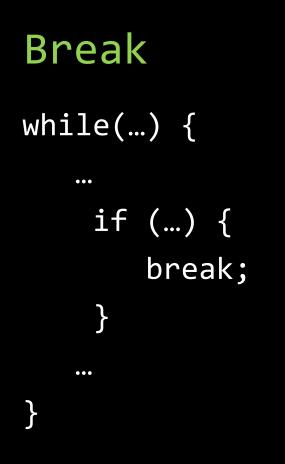
Project #4 has been posted

Java Packages

- What's a package and why is this useful?
- Identifiers for packages
- Declaring the package for a class
- Accessing other classes from...
 - Within the current package
 - From a distant package
 - Using "fully-qualified name"
 - Using import
- Import with wildcard
 - Avoid this (naming collisions)
- Java.lang is special

Java Libraries

- What are they and why do we care?
- Where is the documentation?
- Let's study the API for a couple common classes:
 - String
 - Math



- Used with loops
- Why might this be "questionable" style?
- What happens with nested loops?
- Are there examples where "break" works well?

```
Continue
while(...) {
   ...
    if(...) {
        continue;
     }
   ...
```

- Used with loops
- Why might this be "questionable" style?
- What happens with nested loops?
- How does this work with for-loops?
- Are there examples where "continue" works well?



BreakContinueExample.java

Runtime Errors

Examples of Runtime Errors

Let's consider a concrete case: Example: TriangleAreaCalculator.java

What could go wrong here?

What should be done?

- Error message and terminate?
- Return an "error code"?
- "Throwing an exception".