

CMSC 131

Fall 2018

Announcements

- Project #6 has been posted
- Exam #2 in 10 days (Monday 11/19)

Switch Statements

Two ways to do the same thing:

```
if (x == 3) {
                                switch(x) {
                                case 3:
} else if (x == 40) {
                                   break;
   B
                                case 40:
} else if (x == -5)
                                   break;
                                case -5:
} else {
   D
                                   break;
                                default:
```

Switch Statements (Details)

Default is optional

 Variable at the top must be one of these types: int, short, byte, char, String

Cases must be literals ONLY (not variables, not more complex expressions)

Example: SimpleSwitch

What happens if we take out "default"?
 (This distinguishes switch statements from if else-if else-if chains)

Examples: BetterSwitch, AgeCalculator

Intro to Inheritance

We need this to fix our broken equals method Most details will be postponed until CMSC132

What is inheritance?

Let's develop an example:

Clock.java

AlarmClock.java

Let's write a driver class to demonstrate inheritance.

Vocabulary:

- extends, extension
- Inherits, inheritance

Inheritance Diagram and "IS-A" relation

