CMSC 131

Fall 2018

Nested Loops

Another Example: Stripes.java

One Example, 3 Techniques

User enters a size. For size 5, print:

```
XOOOO
XXOOO
XXXOO
XXXXO
XXXXX
```

1. Using a "formula" to compute number of O's on current row
2. Maintaining a variable for number of O's on current row
3. Using a comparison to decide whether to print X or O

Writing static methods

- So far all of our examples have had just one method, `main`

- Most programs have many methods

- Our methods will say "`static`" for now – we'll explain this later

- (We are still not really doing "Object Oriented" programming)

Operator Precedence

Category	Operators
Unary	++, --, !, - (unary), + (unary)
Multiplicative	*, /, %
Additive	+ (binary), - (binary)
Comparison	<, >, <=, >=
Equality	==, !=
And	&&
Or	||
Assignment	=, +=, -=, *=, /=, %=

- Example: b = 1 + 7 > ++z || 2 * 3 <= 7;
- Associativity

Writing static methods

Examples:

- `public static void printTwentyStars()`   `// print 15 asterisks`

- `public static void printStars(int n)`   `// print n asterisks`