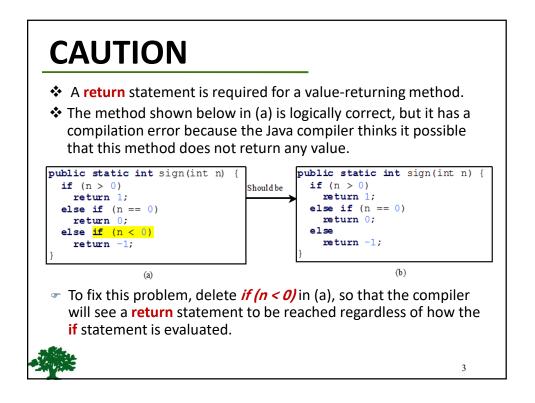
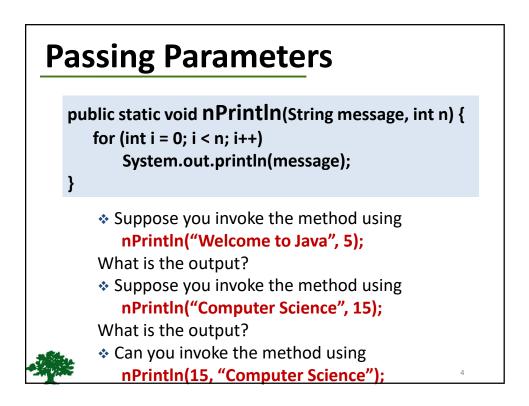
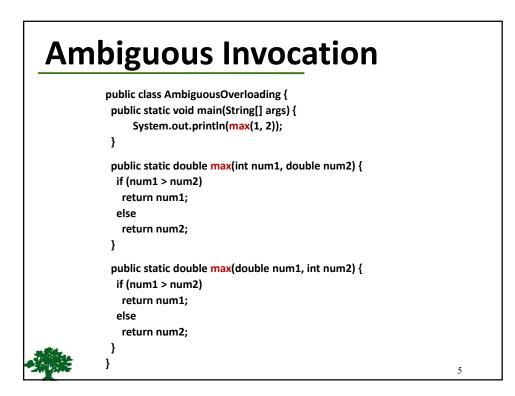


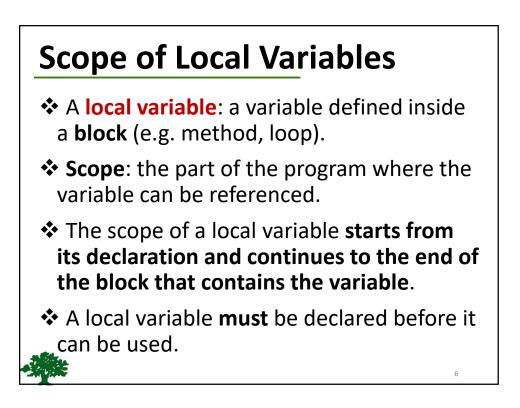
Defining Methods ✤ A method is a collection of statements that are grouped together to perform an operation. Define a method return value method formal modifie name Invoke a method method blic static int int num1. int num2 max header int result; ſ method int z = max(x, y);parameter list body if (num1 > num2) result = num1; actual parameters else method (arguments) result = num2; signature return result; <</pre> return value

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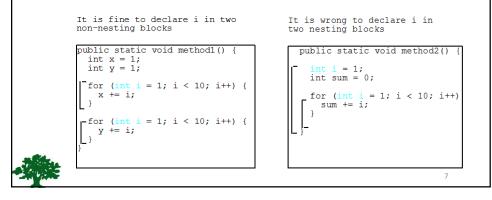


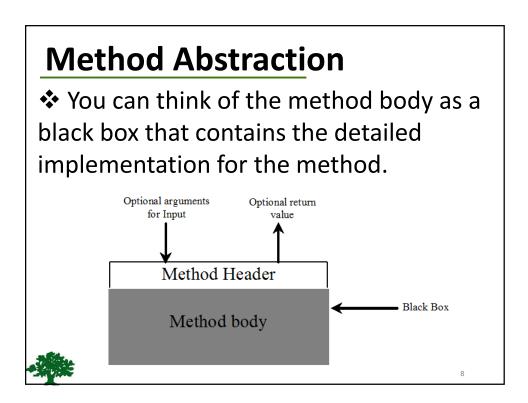




Scope of Local Variables

You can declare a local variable with the same name multiple times in different **non-nesting** blocks in a method, but you cannot declare a local variable twice in nested blocks.

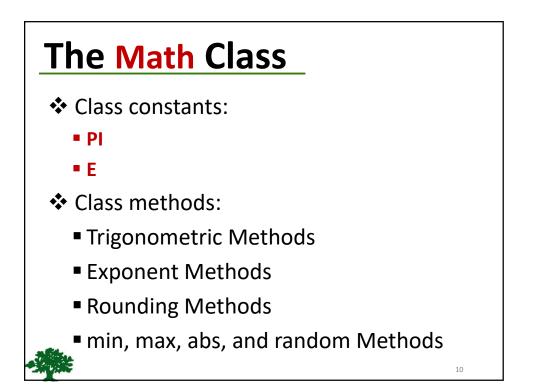


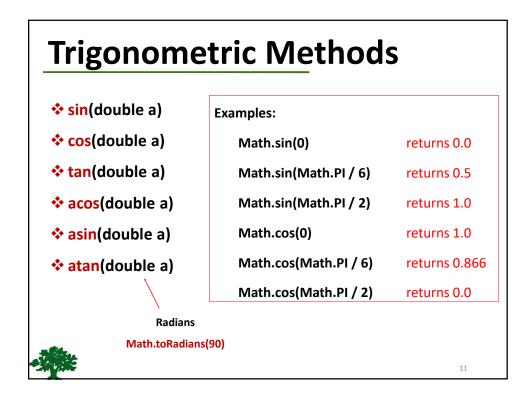


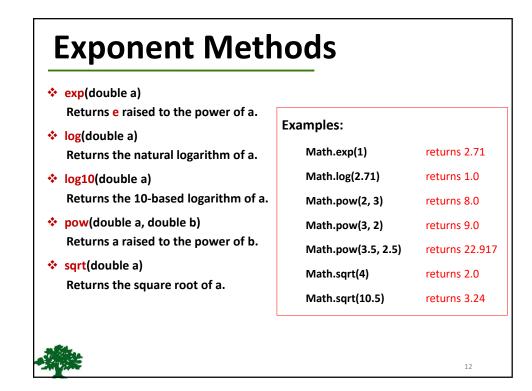
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Benefits of Methods

- Write a method once and **reuse** it anywhere.
- Information hiding. Hide the implementation from the user.
- Reduce complexity.







Rounding Methods

- double ceil(double x) x rounded up to its nearest integer. This integer is returned as a double value.
- double floor(double x) x is rounded down to its nearest integer. This integer is returned as a double value.
- double rint(double x) x is rounded to its nearest integer. If x is equally close to two integers, the even one is returned as a double.

int round(float x) Return (int)Math.floor(x+0.5).

\$ long round(double x) Return (long)Math.floor(x+0.5).

min, max, and abs max(a, b) and min(a, b) Returns the maximum or Examples: minimum of two Math.max(2, 3) returns 3 parameters. Math.max(2.5, 3) returns 3.0 abs(a) Math.min(2.5, 3.6) returns 2.5 Returns the absolute value of the parameter. Math.abs(-2) returns 2 * random() Math.abs(-2.1) returns 2.1 **Returns a random double** value in the range [0.0, 1.0). 14

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