## EECS 1022 P Jan 18 Lecture

Yves Lesperance

## Do This Week

- Quiz #1 on Wed at 10:30, see announcement on Moodle site.
- Lab Audio Generation: prepare, do pre-lab quiz, go to your lab section, and do report
- Read and digest lecture material





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Precedence	Operator	Operands	Syntax	true if
-7 >	<	numeric	х < у	$_{\rm x}$ is less than $_{\rm y}$
	<=	numeric	х <= у	$_{\rm X}$ is less than or equal to $_{\rm Y}$
	>	numeric	х > у	x is greater than y
	>=	numeric	х >= у	$_{\rm X}$ is greater than or equal to $_{\rm Y}$
	instanceof	x instanceof c is true if object reference x points at an instance of class c or a subclass of C.		
-8 >	==	any type	х == у	$\mathbf x$ is equal to $\mathbf y$
	!=	any type	x != v	x is not equal to v









# Examples

- · Express the condition  $x \in [a, b)$
- Express the condition  $x \notin [a, b)$

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#### Examples

- Express the condition x ∈ [a, b)
  (x >= a && x < b)</li>
- Express the condition  $x \notin [a, b)$ 
  - $(!(x \ge a \& x < b))$

Can use deMorgan's Law to convert negated conjunctions to disjunctions.

(x < a || x >= b)

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# Operations on char data

 Can use integer operators with char data, e.g. char let1 = 'D';

char let2 = (char) (let1 + 1);

- Here let1 is promoted to int when 1 is added and must be cast back to char.
- What is the value of

(let1 - 'A' + 1)?

 char has no operators so both arguments of – are promoted to int.