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## 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
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Read and digest lecture material


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## Boolean Expressions

- Relational Expression $\qquad$
(k < 0)
- Boolean Variable
boolean b = k < 0
$\qquad$
- Boolean Expression
$\qquad$
( $\mathrm{k}<0$ || b \&\& m $>\mathrm{h}$ )
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## Examples

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Express the condition $x \in[a, b)$ $\qquad$
( $x$ >= a \& \& $\mathrm{x}<\mathrm{b}$ )
Express the condition $x \notin[a, b)$
(! ( $\mathrm{x}>=\mathrm{a} \& \& \mathrm{x}<\mathrm{b})$ )
Can use deMorgan's Law to convert negated conjunctions to disjunctions.
( $\mathrm{x}<\mathrm{a}| | \mathrm{x}>=\mathrm{b}$ )

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Java By Abstraction

## Operations on char data

- Can use integer operators with char data, e.g. char let1 = 'D';
char let2 = (char) (let1 + 1);
- Here let 1 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.

