



**Learning Outcomes:**

- I will demonstrate my understanding of basic Boolean logic problems.

**Warm-Up Assignment:**

- Boolean Operators

**Review of Prior Knowledge:**

- Review Boolean Operators

**Introduction to New Material: (I Do)**

- Coding Bat Overview

**Guided Practice: (We Do)**

- N/A

**Independent Practice: (You Do)**

- Coding Bat - near\_ten  
<http://codingbat.com/prob/p165321>
- Coding Bat - in1to10  
<http://codingbat.com/prob/p158497>
- Coding Bat - alarm\_clock  
<http://codingbat.com/prob/p119867>
- Coding Bat - sorta\_sum  
<http://codingbat.com/prob/p116620>
- Coding Bat - love6  
<http://codingbat.com/prob/p100958>

***Standards/Expectations:***

**EK.2.2.3F:** A logic gate is a hardware abstraction that is modeled by a Boolean function

**EK.4.1.1C:** Selection uses a Boolean condition to determine which of two parts of an algorithm is used.

**EK.5.5.1E:** Logical concepts and Boolean algebra are fundamental to programming.

**EK.7.5.1B:** Advance search tools, Boolean logic, and key words can refine the search focus and/or limit search results based on a variety of factors (e.g., data, peer-review status, type of publication).

**EK.5.5.1G:** Intuitive and formal reasoning about program components using Boolean concepts helps in developing correct programs.

**c.K.V.:** demonstrate proficiency in the use of the logical operators; and

**EU.5.5:** Programming uses mathematical and logical concepts.