

## PLEASE COMPLETE THE SOCRATIVE Pulse Survey

URL: [gosocrative.com](http://gosocrative.com)

ROOM NAME: JAVAGOLD

### Housekeeping:

1. Problem of the week with Daniel Commins at 3:30PM EST
2. Anonymous Questions to Academic Fellow
3. Review
4. Quiz

Logical Operator Truth TABLE

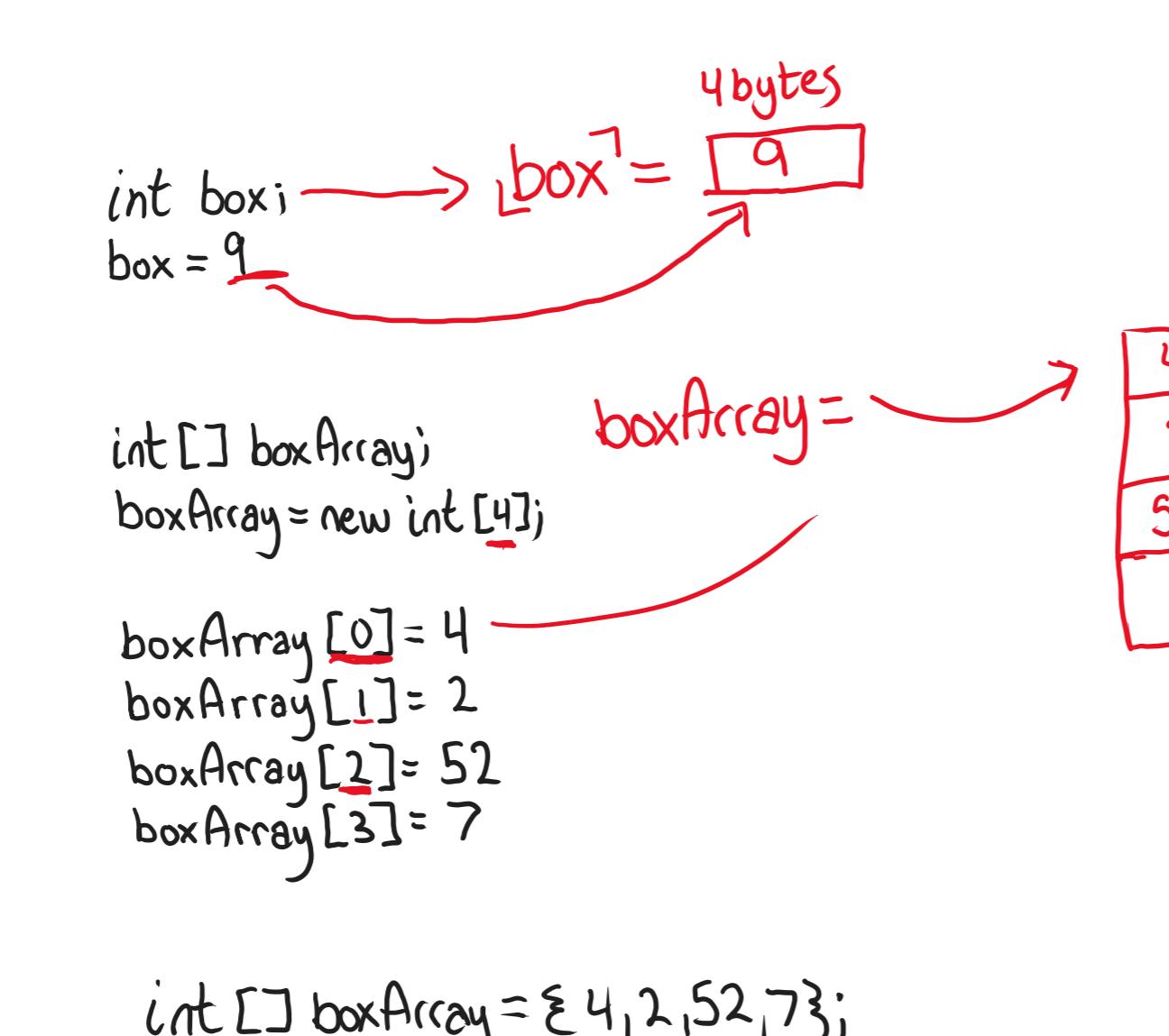
A	B	! A	A & & B	A    B	A ^ B
true	true	false	TRUE	TRUE	FALSE
true	false	false	FALSE	TRUE	TRUE
false	true	true	FALSE	TRUE	TRUE
false	false	true	FALSE	FALSE	FALSE

### VARIABLE Scope

A variable's scope defines where in a program the variable can be referenced.

In Java, scope is determined by blocks

1. Variables declared inside a block {} are only available within that block.
2. Blocks can be nested within other blocks. Variables declared in a block are also available in any nested blocks.



### TODAY'S OBJECTIVES

1. Arrays
2. Loops
3. Debugging

### ARRAYS

We can hold a single value in a variable, but what if we want to hold multiple values for a similar purpose?

```

String student1 = "Alex"
String student2 = "Abdikadir"
String student3 = "Brian"
String student4 = "Erica"
String student5 = "Grant"
...

```

what problems could this lead to?

Array - set of values, like a variable, of the specified data type

Element - an individual value in an array

Index - numeric value that starts at 0 and identifies a specific element in the array

```

int box; → box = 9   4 bytes
box = 9

```

```

int [] boxArray;
boxArray = new int [4];
boxArray [0] = 4   boxArray =
boxArray [1] = 2
boxArray [2] = 52
boxArray [3] = 7

```

```

int [] boxArray = {4, 2, 52, 7};

```

### Array Default Values

#### Data Type

Data Type	Default Value
byte, short, long, int, char	0
double, float	0.0
boolean	False
String	null

Data Type	Default Value
byte, short, long, int, char	0
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boolean	False
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double, float	0.0</td