## 7.2 Using Arrays

Example: Store the numbers 0 - 1000 in an array:

```
int[] numbers = new int[1001];
```

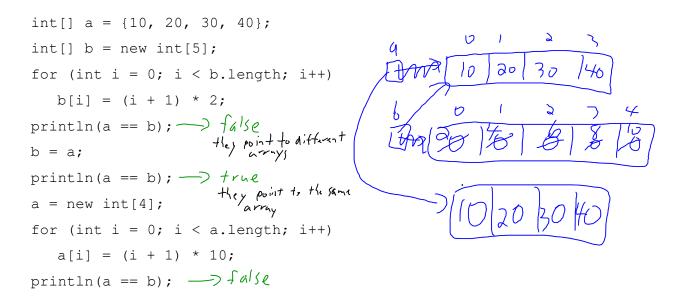
This creates the array and initializes all value to 0.

```
for (int i = 1; i < numbers.length; i++)
numbers[i] = i;</pre>
```

We'd normally start the loop at 0, but numbers [0] is already 0.

We could do numbers[1] = 1; numbers[2] = 2; and so on but it would be too tedious. Instead we use a for loop - this is why arrays are so useful.

If you try to access <code>numbers[1001]</code> you will get an ArrayIndexOutOfBoundsException and the program will crash. Although there are 1001 elements, 1000 is the biggest valid index value.



Read section 7.2 in the textbook.

Do Exercise 7.2 #1-5

I will post solutions to #1, 3 - 5 on Thursday.

I would like you to email me (gerry.heffernan@tdsb.on.ca) your answers to #2 by Tuesday, April 14 (either type into email, or attach a word document or picture of handwritten work)