

ARRAY PARAMETERS

zyBook 7.1, zyBook 7.6

@ Dr. Jessica Young Schmidt and NCSU Computer Science Faculty

PASSING PARAMETERS

- When a primitive data type is passed as a parameter, the value is copied.
- When an object is passed as a parameter, the reference is copied.
 - When you pass an array as a parameter, the method has the ability to change the contents of the array.

```
import java.util.Arrays;
 public class ArrayParameters {
   public static void main(String[] args) {
    int[] list = new int[10];
     System.out.println("After construction: " + Arrays.toString(list));
     for (int i = 0; i < list.length; i++) {
       list[i] = 2 * i + 1;
    System.out.println("After loop:
                                            " + Arrays.toString(list));
    incrementAll(list);
     System.out.println("After incrementAll: " + Arrays.toString(list));
   public static void incrementAll(int[] data) {
     for (int i = 0; i < data.length; i++) {
       data[i]++;

⇒
$ java -cp bin ArrayParameters

After construction: [0, 0, 0, 0, 0, 0, 0, 0, 0]
 After loop: [1, 3, 5, 7, 9, 11, 13, 15, 17, 19]
 After incrementAll: [2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
```