## Parallel Arrays

zyBook Chap 7.5

## Parallel Arrays

Parallel arrays are arrays of the **same size** that are used to store **related lists of items**. For example,

- Array for zip codes, zipCodes
- Array for the delivery time for a given zip code, deliveryTimes
- If userZipCode is at zipCodes [1]. Then the delivery time for userZipCode can be found at deliveryTimes [1]

```
import java.util.Scanner;
public class DeliveryTime {
    // Parallel arrays
    public static final int[] zipCodes = { 37201, 37203, 37205, 37212, 37215 };
    public static final int[] deliveryTimes = { 20, 15, 20, 20, 15 };
                                                                     $ java DeliveryTime
    public static void main (String[] args) {
                                                                     Zipcode: 37203
        Scanner scnr = new Scanner(System.in);
                                                                     Delivery time: 15 min.
        System.out.print("Zipcode: ");
                                                                      $ java DeliveryTime
        if (scnr.hasNextInt()) {
                                                                      Zipcode: 37202
            int userZipCode = scnr.nextInt();
                                                                      Sorry, no delivery to that zip code.
                                                                      $ java DeliveryTime
            boolean found = false;
                                                                     Zipcode: vandy
            for (int i = 0; i < zipCodes.length && !found; ++i) {</pre>
                                                                      Invalid zip code.
                if (userZipCode == zipCodes[i]) {
                     found = true;
                     System.out.println("Delivery time: " + deliveryTimes[i] + " min.");
            if (!found) {
                System.out.println("Sorry, no delivery to that zip code.");
        } else {
            scnr.next();
            System.out.println("Invalid zip code.");
```