#### **One Layer Deeper**

Looking at arrays

#### SHOPPING LIST

You are going shopping and you need somewhere to store all the things you want to buy

- 1) "Apples"
- 2) "Bananas"
- 3) "Steak"
- 4) "Candy"
- 5) "Coffee"

# STRINGS?

"Apples" "Bananas" "Steak" "Candy" "Coffee"

## ARRAYS!

- Set aside enough space to store all of our shopping items
- Fill up those 'slots'
- Access all of our shopping items by the location of its 'slot'

```
// Set aside space for 5 Strings
--> String arrayName[] = new String[5];
    // Store our Strings
--> arrayName[0] = "Apples";
--> arrayName[1] = "Bananas";
--> arrayName[2] = "Steak";
--> arrayName[3] = "Candy";
--> arrayName[4] = "Coffee";
```

"Apples"	"Bananas"	"Steak"	"Candy"	"Coffee"
0	1	2	3	4

// Set aside space and store our Strings String arrayName[] = {"Apples", "Bananas", "Steak", "Candy", "Coffee"};

## ACCESSING OUR ITEMS

How can I print out all of the items on my shopping list?

```
// Set aside space and store our Strings
String arrayName[] = {"Apples", "Bananas", "Steak", "Candy", "Coffee"};
System.out.println(arrayName[0]);
System.out.println(arrayName[1]);
System.out.println(arrayName[2]);
System.out.println(arrayName[3]);
System.out.println(arrayName[4]);
```

## LOOPING WITH ARRAYS

```
// Set aside space and store our Strings
String arrayName[] = {"Apples", "Bananas", "Steak", "Candy", "Coffee"};
for (int i = 0; i < arrayName.length; i++) {
    System.out.println(arrayName[i]);
}</pre>
```

## OGFTHER

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- Using methods, loops and arrays...
- Store 5 items from user input as 
   → Bananas \$2
   a 'shopping list'
   → Steak \$15 a 'shopping list'
- For each of the items, check its price and print it out
- Print out the total cost of all the items

- → Apples \$1
- → Candy \$3→ Coffee \$8
- → Potato \$3
- → Chicken \$9
- → Milk \$4
  - → Bread \$5

### BONUS CHALLENGE

- If you finish the previous challenge...
- Allow the user to enter how many items they want
- For each item on the shopping list, ask the user how much of the item they would like
- Use this when calculating the cost