

# Announcements

- **Term paper due on Sunday**
- **Project #4 has been posted**
- **You may use laptops today**

# Practice with Arrays and Functions

**We will be writing a series of functions today.**

**If you are using Komodo, put the them all into this same “script”.**

**I will post the solutions on the class web page later.**

# Array exercise #1

Consider the function below. It will count the number of times “element” occurs in the array. It will return the count.

```
function countOccurrences(element, arr) {  
...  
}
```

1. Write the function
2. Test your function!

# Array exercise #2

**Consider the function below. It will return the smallest element of an array. (You may assume the array is not empty.)**

```
function findSmallest(arr) {  
...  
}
```

- 1. Write the function**
- 2. Test your function! (Try it with numbers and also strings.)**

# Array exercise #3

**Consider the function below. It will return a new array that is a copy of the parameter.**

```
function copyArray(arr) {  
...  
}
```

- 1. Write the function**
- 2. Test your function!**

# Array exercise #4

**Consider the function below. It will return a new array that contains the exact same elements as the parameter, but after removing all occurrences of “element”. You must not modify the parameter, arr.**

```
function removeAllOccurrences(element, arr) {  
...  
}
```

- 1. Write the function**
- 2. Test your function!**

# Array exercise #5

Consider the function below. It will return a new array that contains all of the elements from the parameter, but in sorted order. **You may not modify the parameter, arr!**

Hint: This can be done by making calls to the functions you have already written!

```
function sort(arr) {  
...  
}
```

1. Write the function
2. Test your function!