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.

```javascript
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.)

```javascript
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.

```javascript
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!