

Activity 4.3

```
var countFailing = function(grades) {  
    var count = 0;  
    for (var i=0;i<grades.length;i++) {  
        var grade = grades[i];  
        if (grade<70) {  
            count++;  
        }  
    }  
    return count;  
};
```



Activity 4.5

```
1 var compare = function(g1, g2) {  
2     var sum1 = 0;  
3     for (var i=0;i<g1.length;i++) {  
4         sum1 += g1[i];  
5     }  
6     var sum2 = 0;  
7     for (var j=0;j<g2.length;j++) {  
8         sum2 +=g2[j];  
9     }  
10    if((sum1/g1.length)>(sum2/g2.length)) {  
11        return "first";  
12    }else {  
13        return "second";  
14    }  
15 };  
16
```

Alternative answer for 4.5

```
1 - var avg = function(g) {
2     var sum = 0;
3     for (var i = 0; i < g.length; i++)
4     {
5         sum += g[i];
6     }
7     return sum/g.length;
8 }
9 - var compare = function(g1, g2) {
10 -   if (avg(g1) > avg(g2)) {
11       return "first";
12   } else {
13       return "second";
14   }
15 }
```

Call the "avg" function

This is how console .log works (The following code will print out "Hello")

```
1 - var console = {
2     log: function (s) {
3         //prints s out to the console
4     }
5 };
6 console.log("Hello");
7
```

Example of analyzing weather: count the days that the weather below 32

```
1 - var weather = function(obj) {
2     //Days it never got above 32;
3     var count=0;
4     for (var i = 0; i < obj.highs.length; i++)
5     {
6         var high = obj.highs[i];
7         if (high <= 32) {
8             count++;
9         }
10    }
11    return count;
12 };
```