CMSC122 Quiz 2 Worksheet

The second quiz for the course will be on Mon, Jul 27. The following list provides additional information about the quiz:

- The quiz will be a written quiz (no computer).
- Closed book, closed notes quiz.
- Answers must be neat and legible.
- Quiz instructions can be found at http://www.cs.umd.edu/~nelson/classes/utilities/examRules.html

The following exercises cover the material to be included in this quiz. Solutions to these exercises will not be provided, but you are welcome to discuss your solutions with the TA or instructor during office hours. When asked to write JavaScript code only provide what will appear in the <script> </script> section (no need for <html>, <head>, <body>, or DOCTYPE).

Exercises

1. Write a function named “find” that has the following prototype:
   
   function find(data, target);

   The function will return true if target is one of the values in the array and false otherwise.

2. Write a JavaScript function named “findInstances” that has the following prototype:

   function findInstances(array, target)

   array → represents an array of integers, target → integer value.

   The function will return the number of entries in the data array whose value is target. For example, the following code fragment uses the function you need to define. The number displayed is 3.

   var a = [10, 20, 10, 10]; // this is an integer array with the specified values
   alert(findInstances(a, 10));

3. Write a function named “doubleValues” that has as parameter an array of integer values and that updates each array entry with twice the original value.

4. Write a function named “filter” that has the following prototype:

   function filter(data, cutoff);

   The function will create and return a new array with entries from the data integer array with a value less than or equal to cutoff. The function will return null if there are no entries that satisfy the specified criteria.