**Title**: Lab #8   
**Author:** Terry Weiss  
**Date**: 10/27/15  
**Course & Section**: CSC 111-003W

**Description**: This program uses a for-loop to prompt the User for 10 letters. It stores them in an array, and then prints them back out using a second for-loop.

**Initial Algorithm**

For each letter, until the user has entered 10 letters:

Prompt for a letter, until it is a valid letter

Store the letter in an array

For each letter in the array:

Display the letter

**Data Requirements**:

Input:

(String) letter – The letter entered

Output:

(String) letter – The letter entered

Additional Variables:

(int) LETTERS – The number of letters that will be prompted for

(String) letterArray – The array holding the letters

(String) literalNth – An array naming the position of each letter (“first”, “second”, etc)

(int) counter – The position in the array

**Formulas**:

N/A

**Refined Algorithm**

FOR counter = 1 TO 10

DO

Prompt for a letter

IF letter isn’t valid THEN

Display error message

END IF

LOOP WHILE letter isn’t 1 character OR letter isn’t a valid letter

Save letter to letterArray

NEXT counter

FOR counter = 0 TO 9

Display the current letter from letteryArray

NEXT counter