Programming Assignment 2

Due 11:59 pm September 18th

Part 1:

Chapter 7 exercise 4, pg. 570 of your textbook

Write a program in a class FlowerCounter that computes the cost of flowers sold at a flower stand. Five kinds of flowers—petunia, pansy, rose, violet, and carnation— are stocked and cost, respectively, 50¢, 75¢, $1.50, 50¢, and 80¢ per flower.

Create an array of strings that holds the names of these flowers.

Create another array that holds the cost of each corresponding flower.

Your program should read the name of a flower and the quantity desired by a customer.

Locate the flower in the name array and use that index to find the cost per stem in the cost array.

Compute and print the total cost of the sale.

Part 2:

Chapter 7 Programming Project 2, pg. 577 of your textbook

Write a program that tests a line of text to see if it is a palindrome (text that reads the same backwards or forwards, e.g. otto).

Displays "TRUE" if it is or "FALSE" if not.

Preconditions:

1. The line of text must be just letters and blank spaces.

2. The maximum number of characters (including blanks) is 50.

3. The test ignores blanks and checks only the letters.

4. The test is case-insensitive.

Notes:

The phrase is stored and processed as an array of characters.

Since the parsing of the line is done in the method

that returns a boolean value of true or false, there is

no "clean" way to give a message that there were no letters

in the line of text. So, in the degenerate cases of all blanks

or no text at all the test will return TRUE.

Instructions

1. You are to submit the \*.java text files in a folder named A3*LastName*.
2. Name the first program “FlowerCounter.java” and the second “Palindrome.java”.