

Recitation Assignment #5: Arrays

CS0007

Due: June 16th, at 11:59 PM

Instructions

The goal of this assignment is to test your ability to use arrays. You will take in a 5 digit lottery number and compare it to a winning lottery number. If the input lottery number has a certain numbers correct you will tell the user how much they have won. You should follow these steps:

1. Declare 2 5-element integer arrays.
 - (a) One should be for the winning lottery number (hard code this as 12-35-34-2-5).
 - (b) The other should be for the user's lottery number input.
2. Declare an integer to count the number of matching lottery numbers.
3. Prompt the user to enter their 5 digit lottery number using a for loop and put their numbers in the user's lottery number array.
4. Compare the elements of the two arrays using a for loop and increment the counter variable declared above when there is a match.
5. Using the value held in the counter variable, display how much the user has won.
 - (a) 0 matching numbers: \$0
 - (b) 1 matching number: \$1
 - (c) 2 matching numbers: \$50
 - (d) 3 matching numbers: \$1,000
 - (e) 4 matching numbers: \$50,000
 - (f) 5 matching numbers: \$90,000,000

Note: You do not have to follow a particular input/output format, but I should be able to understand how to use and understand your program before looking at the code.

You are required to have sufficient internal documentation for your program. This is meant to be AN INDIVIDUAL ASSIGNMENT. Also, taking large segments of code from other sources without citing is plagiarism. The majority of this assignment should be YOUR OWN ORIGINAL WORK. I recommend getting a small storage device such as a flash drive to save your work on. You can get these for under \$20 at any Radio Shack, and many other stores. When you are done submit your project by zipping up the project folder and FTPing it to the drop box for this course as described in class and here: <http://www.cs.pitt.edu/~eth13/cs0007/submissionGuidelines.html>. On the course webpage there is a grading rubric which I will be grading from. Keep this in mind while doing the assignment.