

CSC 2720: Data Structures

Lab 2

Instructor: Shiraj Pokharel

Due : Friday 09/02 @ 11:00 PM ET

Answer the below questions. You may use whatever IDEs / editors you like, but you must submit your responses on iCollege as .java files.

Note that your program's output must **exactly** match the specs(design , style) given here for each problem to pass the instructor's test cases .

Design refers to how well your code is written (i.e. is it clear, efficient, and elegant).

Style refers to the readability of your code (commented, correct indentation, good variable names).

This week as well, you will just play games with Arrays. :)

(1) (50 points)

This is an array given below :

[0, 1, 1, 0, 1, 2, 1, 2, 0, 0, 0, 1]

Write a Java Program that re-arranges this given array exactly as shown below:

0 0 0 0 0 1 1 1 1 1 2 2.

You are *not* allowed to use an extra array to solve the problem :)

(2) (50 points)

Write a Java Program for adding one to number represented by digits in the given array

The given array is [1, 9, 8, 9] so your script must generate an output which is an *integer* 1990.