

Computer Science 130

Midterm 1

PART ONE - Due Tuesday 2/23 at 10:00AM EST

Please fork the template called Midterm 1 in COSC 130.02 (Ariel) and complete the four methods found in the Main.java file. You may create additional testing methods if you wish.

This is an individual assignment and you should not work with others in the class or outside of the class on the below problems. Nor should you ask the TA for help. You may look back at the videos and past assignments in the class.

In class on Tuesday you will be asked questions about the four methods below and asked to make small changes to them.

1. **DeclareAndInitialize Method**

- (a) Declare an array with n elements (where n is the integer parameter for this method) and initialize the array with numbers n through 1 in descending order (n, n-1, ... , 2 , 1).
- (b) Create an ArrayList with n elements, n through 1, in descending order.

2. **SetTo42 Method**

- (a) Change the method signature so that it takes in an integer array. (Do not include any other parameters)
- (b) Set the last integer in that array to 42.
- (c) Change the method signature again so that the method returns an integer array.
- (d) Return the array that has 42 as the last integer.

3. **SetTo24 Method**

- (a) Change the method signature so that it takes in an ArrayList. (Do not include any other parameters)
- (b) Change the value of the 0th element in that ArrayList to 24.
- (c) Change the method signature again so that the method returns an ArrayList.
- (d) Then return the ArrayList that has 24 as the 0th element

4. **Print Method**

Change the method signature so that it takes in an Array AND an ArrayList, then print out both one after the other.

PART TWO

Email Ariel whether you will:

- Redo Lab 0 and/or Lab 1 for up to 90 percent credit (Due Monday 3/1 at 5:00PM) OR
- Keep the lab grades you have.