CSCI-101 Programming I Exam 2

Instructions

Please follow the rules below as you work through this exam.

- Please leave all notebooks and electronics (including cell phones and smart watches) at the side of the room.
- This is a closed book/closed notes exam.
- Do not spend too much time on any one problem. You have 50 minutes to complete this exam.
- Partial credit is awarded.
- Please write legibly. If I cannot read your answers, I cannot give you credit.
- Please write your answers in the order specified. If you need additional paper, please raise your hand to ask your instructor for additional paper.
- Your code must be written to behave as specified.
- You must properly use all identifiers that are explicitly stated.
- Please use proper and consistent coding conventions (indentation, naming identifiers, etc.).
- Please stay in your seat until you are ready to hand in your exam. You may leave when you are finished.
- Once you leave the testing room you cannot return until the exam is over. If you need to use the restroom, please use it now.

- Assume the code you are writing for this exam is placed in a file named Exam2.java.
 Write a complete program that will run when compiled and that satisfies the program requirements shown below.
- 2. Write a method named **printArray** that takes an array of integers as an argument and prints the values of the array to the screen on a single line with spaces between them.
- 3. Write a method named **largest** that has an array of integers named **arr** as a parameter. If the length of **arr** is greater than **0** then the method returns the largest value that is in the array; otherwise the method returns **0**.
- 4. Write a method named **count** that takes an array of integers named **arr** and an integer named **k** as arguments. The method returns an integer whose value is equal to the number of times the value in **k** is stored in **arr**.
- 5. Write a method named **clone** that takes an array of integers as an argument. The method returns a **new** array that has the same length as the array passed into the method and contains the same values that are in the array that is passed into the method.
- 6. In main, add code that does the following.
 - a. Create a Scanner that can read from the keyboard.
 - b. Create an array named arr1 that can hold 3 integers.
 - c. Ask the user to enter 3 integers.
 - d. Read the values entered by the user and store them in arr1.
 - e. Print the values in arr1 using the method named printArray.
 - f. Use the method named **largest** to compute the largest of the values in **arr1**, storing the value in a variable named **biggest**, then print the value in **biggest** to the screen.
 - g. Use the method named **count** to compute the number of integers in **arr1** that have the value **7**, storing the result in a variable named numSevens, then print the value in **numSevens** to the screen.
 - h. Use the method named **clone** to create a new array of integers named **arr2** that holds the same values as those in **arr1**.
 - Print the values in arr2 using the method named printArray.