

CSCI-101 Programming 1

Lab 12

Instructions: Log into cs.bridgewater.edu and navigate to your **csci101/labs** directory. Make a directory named **lab12** and change your working directory to **lab12**.

Create a class named **Lab12**.

Create a method named **printArray** that takes an array of integers as an argument and prints to the screen, on a single line, the values in the **arr1**, with commas between the values.

In **main** do the following:

1. Declare a instance of the Scanner class that can read from the keyboard.
2. Declare an array named **arr1** that can hold 5 integers.
3. Print the values in **arr1** to the screen by calling **printArray**.
4. Use a for-loop to set all of the values in **arr1** to the value **7**.
5. Print the values in **arr1** to the screen by calling **printArray**.
6. Use a for-loop to set the values in **arr1** to **0, 1, 2, 3, 4** (in that order).
7. Print the values in **arr1** to the screen by calling **printArray**.
8. Use a for-loop to set the values in **arr1** to **2, 3, 4, 5, 6** (in that order).
9. Print the values in **arr1** to the screen by calling **printArray**.
10. Use a for-loop to set the values in **arr1** to **0, 3, 6, 9, 12** (in that order).
11. Print the values in **arr1** to the screen by calling **printArray**.
12. Ask the user to enter 5 integers, then read them from the keyboard and store them in **arr1**.
13. Print the values in **arr1** to the screen by calling **printArray**.
14. Use a for-loop to compute the sum of the values in **arr1**, then print to the screen "**Sum:** " followed by the computed sum.
15. Use a for-loop to count how many values in **arr1** are even, then print to the screen "**Num even:** " followed by the computed count.
16. Use a for-loop to compute the maximum value in **arr1**, then print to the screen "**Max:** " followed by the computed maximum.
17. Use a for-loop to compute the manimum value in **arr1**, then print to the screen "**Min:** " followed by the computed minimum.

After you've written the program, compile the program and test it until you are confident that it is correct. If it is not correct, try to debug the code, resave, recompile, and retest.

Once you are confident that the program works properly, use git commands to update your GitHub repository. Confirm your files on GitHub by inspecting the repository on [GitHub.com](https://github.com).