CSCI-101 Programming 1
Lab 10 Part B

Write a class named **Lab10** in your labs directory that contains the following:

• A method named **printMatrix** that takes a 2D array of integers as an argument and prints each row of elements (array) in the 2D array on a separate line with spaces between the elements.

• A method named **getMax** that takes a 2D array of integers as an argument and returns the largest value in the 2D array.

• A method named **getMin** that takes a 2D array of integers as an argument and returns the smallest value in the 2D array.

• A method named **getMeanAverage** that takes a 2D array of integers as an argument and returns the mean average of the elements in the 2D array.

• A method named **main** that does the following:

    • Declares a 3x3 2D array named **matrix**.

    • Asks the user to enter 9 integers.

    • Reads in the 9 integers from the keyboard and stores them in **matrix**.

    • Prints the elements in the matrix by calling **printMatrix**.

    • Declares a variable named **max** and initializes it to the maximum value in **matrix** by calling **getMax**.

    • Prints to the screen "**Max:** " followed by the value in the variable named **max**.

    • Declares a variable named **min** and initializes it to the minimum value in **matrix** by calling **getMin**.

    • Prints to the screen "**Min:** " followed by the value in the variable named **min**.

    • Declares a variable named **mean** and initializes it to the mean average of the values in **matrix** by calling **getMeanAverage**.

    • Prints to the screen "**Mean:** " followed by the value in the variable named **mean**.