ARRAY PRACTICE QUESTIONS

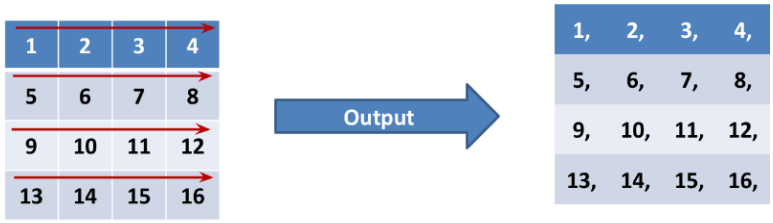
1. Write a program to create an array of 100 elements, initialize each element with the same value (its index uses). Sum all the array values and print the Sum.
2. Write a program to create an array of 10 elements, initialize each element a random value (1 to 50). Print the array values. Then, Reverse the values stored in array. Output the final array values.
3. Write a program that creates an integer array having 100 elements. Then, randomly assign values (0—99) to the arrays elements. After that the program should ask the user to enter a number and print the total number of occurrences (how many time the number appeared) in the array.
   Example:

   Enter the number: 29

   The number 29 appeared 7 times in the array.

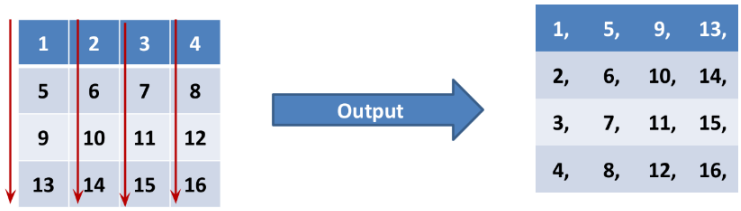
4. Write a program to create an array of 50 elements, initialize each element random value (1 to 100). Find the location and largest value.
   Example output:
   Enter a number to search: 44
   44 s at location 6
5. Write a program to that creates a matrix of size 5 by 5 (5 Columns, and 5 Rows). The program should ask the user to enter values in each matrix element. Then the program should display the matrix Row-wise.

Example:



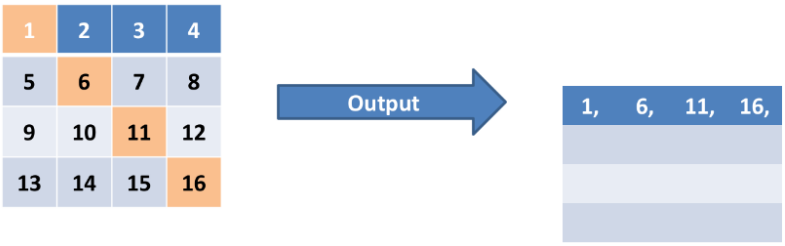
6. Write a program to that creates a matrix of size 5 by 5 (5 Columns, and 5 Rows). The program should ask the user to enter values in each matrix element. Then the program should display the matrix Coulmn-wise.

Example:



7. Write a program to that creates a matrix of size 10 by 10 (10 Columns, and 10 Rows). The program should ask the user to enter values in each matrix element. Then the program should display the left-diagonal elements of the matrix.

   Example (5 by 5 matrix):



8. Write a program that creates a matrix of 3 by 3 (3 rows, and 3 columns). Get input values from the user for the complete matrix. Then, the program should determine whether the matrix is a “Zero” matrix (all elements are zero) or not.
9. Write a program that creates a matrix of 4x4 (4 rows, and 4 coulmns). Get input values from the user for the complete matrix. The program should calculate and print the sums of each individual column.