DATA STRUCTURE

Type Multidimensional Arrays & Nested Loops LAB PERFORMENCE

Deadline IN CLASS

Weighting TBA

OBJECTIVES

This assessment item is designed to test your skills on multidimensional arrays and nested loops

ASSESSMENT TASK

- 1. Implement a 2D-array with some random integer values. Display/print the content of your array in a linear fashion.
- 2. Implement a 2D-array with some random integer values. Display/print the content of your array as Matrix.
- 3. Declare two Matrices A [2] [3] = $\{1, 2, 3, 4, 5, 6\}$ & B [2] [3] = $\{1, 2, 1, 2, 1, 2\}$ and store the summation of A and B into another matrix C [2] [3].
- 4. Declare two Matrices A [2] [3] = $\{1, 2, 3, 4, 5, 6\}$ & B [3] [2] = $\{1, 2, 1, 2, 1, 2\}$ and multiply them and print the resultant matrix.
- 5. Write a program to search a particular element from a 2D-array and print its position. You can assume that A $[2][3] = \{10, 25, 17, 28, -45, 14\}$

Input:

Enter key to search: 14

Output: Position: 12

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6. Write C++ programs to perform the following tasks:

	Α	В	С	D	E
Ī	1	A	В	С	D
Ī	0	1	A	В	С
Ī	0	0	1	A	В
Ī	0	0	0	1	Α

Consider the 2D-Array called "CArray" right beside

Print the **CArray** as like below shapes:

ABCDE	1	A	1	1 A B
ABCD	0 1	ABC	10	1 A B
A B C	0 0 1	ABCD	100	1 A B
A B	0001	ABCDE	$1\ 0\ 0\ 0\ 0$	1 A B
A	$0\ 0\ 0\ 0\ 1$			1 A B

WHAT & HOW TO SUBMIT

You need to upload through your **VUES** account. You can find the upload link under "Courses/ DATA STRUCTURE/Lab Performance/"

SUBMISSION STEPS:

1. Create a Directory/Folder as following format:

<Your ID>_PERFORMENCE-< Performence Number>

Ex: 14-10380-1_PERFORMENCE-1

2. If you update your code then the format should be following:

<Your ID>_PERFORMENCE-< Performence Number>_UPDATE-<Update Number>

Ex: 14-10380-1_PERFORMENCE-1_UPDATE-1

3. Put all the files into that Folder and upload the **zipped** format of that Folder

NOTES

- Your submission will be rejected if uploaded in wrong format
- Only ".zip" file will be accepted.