

Faculty of Engineering and Technology Spring Semester 2024/2025

Course: Programming (1)

DR Ahmed Soliman

## Assignment (8)

A	)	Choose	the	correct	answer:
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1)	What is a	multidime	ensional	array in	<b>C</b> ?
<b>1</b> )	vviiat is a	munuam	Jisionai	array iii	$\sim$ .

a) An array with elements of different types			
b) An array with functions as elements			
c) An array of arrays			
d) An array with more than 100 elements			

2) How do you initialize a two-dimensional array in C?

a) Using nested loops			
b) Using multiple one-dimensional arrays			
c) Using a single initializer list with commas			
d) Using nested initializer lists			

3) How would you get the value 6 out of the following array

int a [ ][ ] = { 
$$\{2, 4, 6, 8\}, \{1, 2, 3, 4\} \}$$
;?

- O A. a[0][3]
- O B. a[1][3]
- O C. a[0][2]
- O. a[2][0]

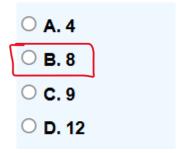
4) Which of the following statements assigns letter 'S' to the third row and the first column of a two-dimensional array named "strGrid"

```
    A. strGrid[0][2] = "S";
    B. strGrid[1][3] = "S";
    C. strGrid[3][1] = "S";
    D. strGrid[2][0] = "S";
```

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5) Given the following code segment, what is the value of sum after this code executes?

```
int[][] matrix = { {1,1,2,2},{1,2,2,4},{1,2,3,4},{1,4,1,2}};
int sum = 0;
int col = matrix[0].length - 2;
for (int row = 0; row < 4; row++)
{
    sum = sum + matrix[row][col];
}</pre>
```



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