



## Assignment (8)

### A) Choose the correct answer:

1) What is a multidimensional array in C?

- 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} };`

- ☐ A. `a[0][3]`
- ☐ B. `a[1][3]`
- ☒ C. `a[0][2]`
- ☐ D. `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";`
- 

- 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];  
}
```

- ☐ A. 4
- ☒ B. 8
- ☐ C. 9
- ☐ D. 12

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