

# DAY-19(2D ARRAY)

1

When you create an array using the following statement, the element values are automatically initialized to 0.

```
int arr[][] = new int[5][5];
```

☒ True☐ False

**Correct**

---

Which of the following create an empty two-dimensional array with dimensions 2×2?

☐ `int[][] blue = new int[2 x 2];`

☒ `int[][] blue = new int[2][2];`

☐ `int[][] blue = new int[2, 2];`

☐ `int[][] blue = new int[2], [2];`

**Correct**

Predict the output -

```
public class TwoDArraySum {  
    public static void main(String[] args) {  
        int[][] arr = {  
            {1, 2, 3},  
            {4, 5, 6},  
            {7, 8, 9}  
        };  
  
        int sum = 0;  
  
        for (int i = 0; i < arr.length; i++) {  
            for (int j = 0; j < arr[i].length; j++) {  
                sum += arr[i][j];  
            }  
        }  
  
        System.out.println("Sum of elements in the 2D array: " +  
sum);  
    }  
}
```

☐ 12

☐ 40

☒ 45

☐ 15

**Incorrect**

What are the contents of arr after the following code has been executed?

```
int[][] arr = { {3,2,1},{1,2,3}};  
int value = 0;  
for (int row = 1; row < arr.length; row++) {  
    for (int col = 1; col < arr[0].length; col++) {  
        if (arr[row][col] % 2 == 1){  
            arr[row][col] = arr[row][col] + 1;  
        }  
        if (arr[row][col] % 2 == 0){  
            arr[row][col] = arr[row][col] * 2;  
        }  
    }  
}
```

- ☐ { {6, 4, 2}, {2, 4, 6}}
- ☐ { {3, 2, 1}, {1, 4, 4}}
- ☒ { {3, 2, 1}, {1, 4, 8}}
- ☐ { {3, 2, 1}, {1, 4, 6}}

**Incorrect**

What are the contents of arr after the following code has been executed?

```
int[][] arr = { {3,2,1},{1,2,3}};  
int value = 0;  
for (int row = 1; row < arr.length; row++) {  
    for (int col = 1; col < arr[0].length; col++) {  
        if (arr[row][col] % 2 == 1){  
            arr[row][col] = arr[row][col] + 1;  
        }  
        else if (arr[row][col] % 2 == 0){  
            arr[row][col] = arr[row][col] * 2;  
        }  
    }  
}
```

- ☒ { {3, 2, 1}, {1, 4, 4}}
- ☐ { {4, 4, 2}, {2, 4, 4}}
- ☐ { {3, 2, 1}, {1, 4, 6}}
- ☐ { {6, 4, 2}, {2, 4, 6}}

**Incorrect**