



Peer Instruction #11: 2D Arrays and Miscellaneous Java



2D Arrays

Declaration and Instantiation

Which statements correctly declare and allocate a 2D integer array with 2 rows and 3 columns?

- 1) `int iArray[3][2];`
- 2) `int iArray = new int[2][3];`
- 3) `int iArray[][] = new int[3][2];`
- 4) `int iArray[][] = new int[2][3];`
- 5) `int iArray[][] = { { 1, 2, 3 }, { 4, 5, 6 } };`

- A. 2) and 4) D. 3) and 5)
B. 1) and 5) E. 4) and 5)
C. 2) and 5)



2D Arrays

Accessing Elements

What is the value of `cArray[2][1]` after the following code has executed?

```
char cArray[][] = new char[3][3];  
for (int i = 0; i < 3; i++)  
    for (int j = 0; j < 3; j++)  
        cArray[i][j] = (char) ('a' + j + i);
```

- A. 'a'
- B. 'b'
- C. 'c'
- D. 'd'
- E. 'e'



Miscellaneous Java String Class

Which of the following statements converts the String named myString to upper case?

- A. `String.toUpperCase();`
- B. `String.toUpperCase(myString);`
- C. `myString.toUpperCase();`
- D. `myString = myString.toUpperCase();`
- E. None of the above



Miscellaneous Java

Integer Class

Which does the following statement do?

```
int myInt = Integer.parseInt("25.0");
```

Parses the string "25.0", then:

- A. Converts to the integer value 25 and assigns to myInt.
- B. Converts to the double value 25.0 and demotes into myInt.
- C. Will not compile because "25.0" is not an int.
- D. Throws an exception because "25.0" cannot be converted.



Miscellaneous Java Arrays Class

**What is the correct way to convert an array
dArray to a String?**

- A. `dArray.toString();`
- B. `dArray.toString(dArray);`
- C. `Arrays.toString();`
- D. `Arrays.toString(dArray);`
- E. `dArray[].toString();`



Miscellaneous Java Enumerated Types

What is printed by the following code?

```
enum DayOfWeek = { SUNDAY, MONDAY, TUESDAY,  
    WEDNESDAY, THURSDAY, FRIDAY, SATURDAY };  
System.out.println(DayOfWeek.MONDAY);
```

- A. MONDAY
- B. 1
- C. 2
- D. Compile Error
- E. Don't know, don't care!



Miscellaneous Java

Ternary Operator

What does it print?

```
System.out.println(((15 % 6) >= 4) ? 12 * 4 : 36 - 2);
```

- A. 12
- B. 34
- C. 36
- D. 48
- E. Will not compile.