

unit 8 b

1. Consider the following code segment.

```
int[][] anArray = new int[10][8];

for (int j = 0; j < 8; j++)
{
    for (int k = 0; k < 10; k++)
    {
        anArray[j][k] = 5;
    }
}
```

The code segment causes an `ArrayIndexOutOfBoundsException` to be thrown. How many elements in `anArray` will be set to 5 before the exception is thrown?

- (A) 0
- (B) 8
- (C) 9
- (D) 64
- (E) 80

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2. Assume `mat` is defined as follows.

```
int dim = 4;
int[][] mat = new int[dim][dim];
```

Consider the following code segment.

```
int sum = 0;
for (int row = 0; row < dim; row++)
{
    sum = sum + mat[row][dim - 1];
}
```

Assume that `mat` contains the following values before the code segment is executed. Note that `mat[0][3]` is 2.

	0	1	2	3
0	1	1	2	2
1	1	2	2	4
2	1	3	2	6
3	1	4	2	8

What value will `sum` contain after the code segment is executed?

- (A) 6
- (B) 8
- (C) 13
- (D) 15
- (E) 20

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3. Assume that `mat` has been declared as a 4×4 array of integers and has been initialized to contain all 1s. Consider the following code segment.

```
int n = mat.length;
for (int j = 1; j < n; j++)
{
    for (int k = 1; k < n; k++)
    {
        mat[j][k] = mat[j - 1][k] + mat[j][k - 1];
    }
}
```

What is the value of `mat[2][2]` after the code segment has completed execution?

- (A) 2
- (B) 3
- (C) 4
- (D) 6
- (E) 10

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4. Consider the following code segment.

```
int[][] mat = new int[3][4];
for (int row = 0; row < mat.length; row++)
{
    for (int col = 0; col < mat[0].length; col++)
    {
        if (row < col)
        {
            mat[row][col] = 1;
        }
        else if (row == col)
        {
            mat[row][col] = 2;
        }
        else
        {
            mat[row][col] = 3;
        }
    }
}
```

What are the contents of mat after the code segment has been executed?

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(A) $\{\{2, 1, 1\},$
 $\{3, 2, 1\},$
 $\{3, 3, 2\},$
 $\{3, 3, 3\}\}$

(B) $\{\{2, 3, 3\},$
 $\{1, 2, 3\},$
 $\{1, 1, 2\},$
 $\{1, 1, 1\}\}$

(C) $\{\{2, 3, 3, 3\},$
 $\{1, 2, 3, 3\},$
 $\{1, 1, 2, 3\}\}$

(D) $\{\{2, 1, 1, 1\},$
 $\{3, 2, 1, 1\},$
 $\{3, 3, 2, 1\}\}$

(E) $\{\{1, 1, 1, 1\},$
 $\{2, 2, 2, 2\},$
 $\{3, 3, 3, 3\}\}$

5. Consider the following code segment.

```
String[][] letters = {"A", "B", "C", "D"},
                    {"E", "F", "G", "H"},
                    {"I", "J", "K", "L"};
for (int col = 1; col < letters[0].length; col++)
{
    for (int row = 1; row < letters.length; row++)
    {
        System.out.print(letters[row][col] + " ");
    }
    System.out.println();
}
```

What is printed as a result of executing this code segment?

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- (A) A E I
F J
K
- (B) B F J
C G K
D H L
- (C) E I
F J
G K
H L
- (D) F G H
J K L
- (E) F J
G K
H L

6. A two-dimensional array `arr` is to be created with the following contents.

```
boolean[][] arr = {{false, true, false},  
                   {false, false, true}};
```

Which of the following code segments can be used to correctly create and initialize `arr` ?

- (A)

```
boolean arr[][] = new boolean[2][3];  
arr[0][1] = true;  
arr[1][2] = true;
```
- (B)

```
boolean arr[][] = new boolean[2][3];  
arr[1][2] = true;  
arr[2][3] = true;
```
- (C)

```
boolean arr[][] = new boolean[3][2];  
arr[0][1] = true;  
arr[1][2] = true;
```
- (D)

```
boolean arr[][] = new boolean[3][2];  
arr[1][0] = true;  
arr[2][1] = true;
```
- (E)

```
boolean arr[][] = new boolean[3][2];  
arr[2][1] = true;  
arr[3][2] = true;
```

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7. Consider the following method.

```
/** Precondition: values has at least one row */
public static int calculate(int[][] values)
{
    int found = values[0][0];
    int result = 0;
    for (int[] row : values)
    {
        for (int y = 0; y < row.length; y++)
        {
            if (row[y] > found)
            {
                found = row[y];
                result = y;
            }
        }
    }
    return result;
}
```

Which of the following best describes what is returned by the calculate method?

- (A) The largest value in the two-dimensional array
- (B) The smallest value in the two-dimensional array
- (C) The row index of an element with the largest value in the two-dimensional array
- (D) The row index of an element with the smallest value in the two-dimensional array
- (E) The column index of an element with the largest value in the two-dimensional array

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8. Consider the following code segment.

```
int[] oldArray = {1, 2, 3, 4, 5, 6, 7, 8, 9};

int[][] newArray = new int[3][3];

int row = 0; int col = 0;

for (int index = 0; index < oldArray.length; index++)

{

newArray[row][col] = oldArray[index]; row++;

if ((row % 3) == 0)

{

col++;

row = 0;

}

}

System.out.println(newArray[0][2]);
```

What is printed as a result of executing the code segment?

- (A) 3
- (B) 4
- (C) 5
- (D) 7
- (E) 8

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9. Consider the following code segment.

```
String[][] board = new String[5][5];

for (int row = 0; row < 5; row++)
{
    for (int col = 0; col < 5; col++)
    {
        board[row][col] = "O";
    }
}

for (int val = 0; val < 5; val++)
{
    if (val % 2 == 1)
    {
        int row = val;
        int col = 0;
        while (col < 5 && row >= 0)
        {
            board[row][col] = "X";
            col++;
            row--;
        }
    }
}
```

Which of the following represents board after this code segment is executed?

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(A)

	0	1	2	3	4
0	X	○	X	○	X
1	○	X	○	X	○
2	X	○	X	○	X
3	○	X	○	X	○
4	X	○	X	○	X

(B)

	0	1	2	3	4
0	○	X	○	X	○
1	X	○	X	○	X
2	○	X	○	X	○
3	X	○	X	○	X
4	○	X	○	X	○

(C)

	0	1	2	3	4
0	X	○	○	○	X
1	○	X	○	X	○
2	○	○	X	○	○
3	○	X	○	X	○
4	X	○	○	○	X

(D)

	0	1	2	3	4
0	○	X	○	○	○
1	○	○	X	○	○
2	X	○	○	X	○
3	○	X	○	○	X
4	○	○	X	○	○

(E)

	0	1	2	3	4
0	○	X	○	X	○
1	X	○	X	○	○
2	○	X	○	○	○
3	X	○	○	○	○
4	○	○	○	○	○

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10. Consider the following code segment.

```
int[] oldArray = {1, 2, 3, 4, 5, 6, 7, 8, 9};
int[][] newArray = new int[3][3];

int row = 0;
int col = 0;
for (int value : oldArray)
{
    newArray[row][col] = value;
    row++;
    if ((row % 3) == 0)
    {
        col++;
        row = 0;
    }
}

System.out.println(newArray[0][2]);
```

What is printed as a result of executing the code segment?

- (A) 3
 - (B) 4
 - (C) 5
 - (D) 7
 - (E) 8
11. Consider the following definition.

```
int[][] numbers = {{1, 2, 3},
                  {4, 5, 6}};
```

Which of the following code segments produces the output 123456 ?

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- (A)

```
for (int[] row : numbers)
{
    for (int n : row)
    {
        System.out.print(n);
    }
}
```
- (B)

```
for (int[] row : numbers)
{
    for (int n : row)
    {
        System.out.print(row[n]);
    }
}
```
- (C)

```
for (int rc = 0; rc < numbers.length; rc++)
{
    System.out.print(numbers[rc]);
}
```
- (D)

```
for (int r = 0; r < numbers[0].length; r++)
{
    for (int c = 0; c < numbers.length; c++)
    {
        System.out.print(numbers[r][c]);
    }
}
```
- (E)

```
for (int c = 0; c < numbers[0].length; c++)
{
    for (int r = 0; r < numbers.length; r++)
    {
        System.out.print(numbers[r][c]);
    }
}
```

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12. Consider the following method.

```
public static int[] operation(int[][] matrix, int r, int c)
{
    int[] result = new int[matrix.length];

    for (int j = 0 ; j < matrix.length ; j++)
    {
        result[j] = matrix[r][j] * matrix[j][c];
    }
    return result;
}
```

The following code segment appears in another method in the same class.

```
int[][] mat = {{3, 2, 1, 4},
               {1, 2, 3, 4},
               {2, 2, 1, 2},
               {1, 1, 1, 1}};

int[] arr = operation(mat, 1, 2);
```

Which of the following represents the contents of arr as a result of executing the code segment?

- (A) {6, 4, 2, 4}
- (B) {1, 6, 3, 4}
- (C) {4, 3, 6, 1}
- (D) {4, 4, 2, 2}
- (E) {2, 2, 4, 4}

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13. Consider the following Util class, which contains two methods. The completed sum1D method returns the sum of all the elements of the 1-dimensional array a. The incomplete sum2D method is intended to return the sum of all the elements of the 2-dimensional array m.

```
public class Util
{
    /** Returns the sum of the elements of the 1-dimensional array a */
    public static int sum1D(int[] a)
    { /* implementation not shown */ }

    /** Returns the sum of the elements of the 2-dimensional array m */
    public static int sum2D(int[][] m)
    {
        int sum = 0;

        /* missing code */

        return sum;
    }
}
```

Assume that sum1D works correctly. Which of the following can replace */* missing code */* so that the sum2D method works correctly?

- I.

```
for (int k = 0; k < m.length; k++)
{
    sum += sum1D(m[k]);
}
```
- II.

```
for (int[] row : m)
{
    sum += sum1D(row);
}
```
- III.

```
for (int[] row : m)
{
    for (int v : row)
    {
        sum += v;
    }
}
```

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- (A) I only
- (B) II only
- (C) I and II only
- (D) II and III only
- (E) I, II, and III

14. Consider the following method, which is intended to return the number of columns in the two-dimensional array `arr` for which the sum of the elements in the column is greater than the parameter `val`.

```
public int countCols(int[][] arr, int val)
{
    int count = 0;

    for (int col = 0; col < arr[0].length; col++) // Line 5
    {
        int sum = 0;
        for (int[] row : col) // Line 8
        {
            sum += row[col]; // Line 10
        }
        if (sum > val)
        {
            count++;
        }
    }
    return count;
}
```

The `countCols` method does not work as intended. Which of the following changes should be made so the method works as intended?

- (A) Line 5 should be changed to `for (int col = 0; col < arr.length; col++)`
 - (B) Line 8 should be changed to `for (int row : col)`
 - (C) Line 8 should be changed to `for (int[] row : arr)`
 - (D) Line 10 should be changed to `sum += arr[col];`
 - (E) Line 10 should be changed to `sum += arr[row][col];`
15. Consider the following code segment, which is intended to declare and initialize the two-dimensional (2D) String array `things`.

```
/* missing code */ = {"spices", "garlic", "onion", "pepper"},
                    {"clothing", "hat", "scarf", "gloves"},
                    {"plants", "tree", "bush", "flower"},
                    {"vehicles", "car", "boat", "airplane"};
```

Which of the following could replace `/* missing code */` so that `things` is properly declared?

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- (A) `new String[][] things`
- (B) `new(String[][]) things`
- (C) `String[] String[] things`
- (D) `String[][] things`
- (E) `[][]String things`

16. Consider the following method, `count`, which is intended to traverse all the elements in the two-dimensional (2D) `String` array `things` and return the total number of elements that contain at least one `"a"`.

```
public static int count(String[][] things)
{
    int count = 0;
    for (int r = 0; r < things.length; r++)
    {
        for (int c = 0; c < things[r].length - 1; c++)
        {
            if (things[r][c].indexOf("a") >= 0)
            {
                count++;
            }
        }
    }
    return count;
}
```

For example, if `things` contains `{{"salad", "soup"}, {"water", "coffee"}}`, then `count(things)` should return 2.

The method does not always work as intended. For which of the following two-dimensional array input values does `count` NOT work as intended?

- (A) `{{"lemon"}, {"lime"}}`
- (B) `{{"tall", "short"}, {"up", "down"}}`
- (C) `{{"rabbit", "bird"}, {"cat", "dog"}, {"gecko", "turtle"}}`
- (D) `{{"scarf", "gloves", "hat"}, {"shoes", "shirt", "pants"}}`
- (E) `{{"math", "english", "physics"}, {"golf", "baseball", "soccer"}}`

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17. Consider the following method, which is intended to return `true` if 0 is found in its two-dimensional array parameter `arr` and `false` otherwise. The method does not work as intended.

```
public boolean findZero(int[][] arr)
{
    for (int row = 0; row <= arr.length; row++)
    {
        for (int col = 0; col < arr[0].length; col++)
        {
            if (arr[row][col] == 0)
            {
                return true;
            }
        }
    }
    return false;
}
```

Which of the following values of `arr` could be used to show that the method does not work as intended?

- (A) `{{30, 20}, {10, 0}}`
 (B) `{{4, 3}, {2, 1}, {0, -1}}`
 (C) `{{0, 1, 2}, {3, 4, 5}, {6, 7, 8}}`
 (D) `{{5, 10, 15, 20}, {25, 30, 35, 40}}`
 (E) `{{10, 20, 0, 30, 40}, {60, 0, 70, 80, 90}}`
18. Consider the following code segment, where `num` is a properly declared and initialized integer variable. The code segment is intended to traverse a two-dimensional (2D) array `arr` looking for a value equal to `num` and then print the value. The code segment does not work as intended.

```
int[][] arr = {{7, 3, 6, 4},
              {9, 2, 0, 5},
              {1, 4, 3, 8}};
for (int j = 0; j < arr.length - 1; j++)
{
    for (int k = 0; k < arr[0].length; k++)
    {
        if (arr[j][k] == num)
        {
            System.out.println(arr[j][k]);
        }
    }
}
```

For which of the following values of `num` does the code segment not work as intended?

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- (A) num = 5
- (B) num = 6
- (C) num = 7
- (D) num = 8
- (E) num = 9

19. Consider the following code segment.

```
int[][] arr = {{6, 2, 5, 7},
               {7, 6, 1, 2}};
for (int j = 0; j < arr.length; j++)
{
    for (int k = 0; k < arr[0].length; k++)
    {
        if (arr[j][k] > j + k)
        {
            System.out.println("!");
        }
    }
}
```

How many times will "!" be printed when the code segment is executed?

- (A) 0 times
 - (B) 2 times
 - (C) 4 times
 - (D) 6 times
 - (E) 8 times
20. Consider the following two-dimensional array definition.

```
int[][] data = new int[5][10];
```

Consider the following code segment, where all elements in `data` have been initialized.

```
for (int j = 0; j < data.length; j++)
{
    for (int k = 0; k < data[0].length; k++)
    {
        if (j == k)
        {
            System.out.println(data[j][k]);
        }
    }
}
```

How many times is the `println` method called when the code segment is executed?

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- (A) 4
- (B) 5
- (C) 9
- (D) 10
- (E) 15

21. Consider the following code segment.

```
int[][] array2D = {{1, 2, 3, 4},
                  {5, 6, 7, 8},
                  {9, 10, 11, 12},
                  {13, 14, 15, 16}};
for (int[] i : array2D)
{
    for (int x : i)
    {
        System.out.print(x + " ");
    }
    System.out.println(" ");
}
```

How many times will the statement `System.out.print(x + " ")` be executed?

- (A) 3 times
- (B) 4 times
- (C) 6 times
- (D) 12 times
- (E) 16 times

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22. Consider the following data field and method.

```
private int[][] mat;

public void mystery ()
{
    for (int row = 1; row < mat.length; row++)
    {
        for (int col = 0; col < mat[0].length; col++)
        {
            if (row != col)
                mat[row][col] = mat[row - 1][col];
        }
    }
}
```

Assume that `mat` contains the following values. Note that `mat[0][4]` is 2.

```
4 1 3 4 2
1 8 7 5 3
7 4 6 9 2
3 8 1 2 4
5 6 7 0 3
```

What values does `mat` contain after a call to `mystery`?

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- 4 1 3 4 2
 4 8 3 4 2
 (A) 4 8 6 4 2
 4 8 6 2 2
 4 8 6 2 3
- 4 1 3 4 2
 4 1 3 4 2
 (B) 4 1 3 4 2
 4 1 3 4 2
 4 1 3 4 2
- 4 1 3 4 2
 4 1 3 4 2
 (C) 1 8 7 5 3
 7 4 6 9 2
 3 8 1 2 4
- 4 4 4 4 4
 1 1 1 1 1
 (D) 7 7 7 7 7
 3 3 3 3 3
 5 5 5 5 5
- 4 8 6 2 3
 4 8 6 2 3
 (E) 4 8 6 2 3
 4 8 6 2 3
 4 8 6 2 3

23. Assume that a two-dimensional (2D) array `arr` of `String` objects with 3 rows and 4 columns has been properly declared and initialized.

Which of the following can be used to print the elements in the four corner elements of `arr` ?

- (A) `System.out.print(arr[0, 0] + arr[0, 3] + arr[2, 0] + arr[2, 3]);`
 (B) `System.out.print(arr[1, 1] + arr[1, 4] + arr[3, 1] + arr[3, 4]);`
 (C) `System.out.print(arr[0][0] + arr[0][2] + arr[3][0] + arr[3][2]);`
 (D) `System.out.print(arr[0][0] + arr[0][3] + arr[2][0] + arr[2][3]);`
 (E) `System.out.print(arr[1][1] + arr[1][4] + arr[3][1] + arr[3][4]);`
24. Consider the following code segment, where `letters` is a two-dimensional (2D) array that contains possible letters. The code segment is intended to print "DIG".

```
String[][] letters = {{ "A", "B", "C"},
                     { "D", "E", "F"},
                     { "G", "H", "I"} };
System.out.println( /* missing code */ );
```

Which of the following could replace `/* missing code */` so that the code segment works as intended?

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- (A) letters[2][1] + letters[3][3] + letters[3][1]
- (B) letters[2][0] + letters[2][2] + letters[1][0]
- (C) letters[1][2] + letters[3][3] + letters[1][3]
- (D) letters[1][0] + letters[2][2] + letters[2][0]
- (E) letters[0][1] + letters[2][2] + letters[0][2]

25. Consider the following code segment.

```
int[][] points = {{11, 12, 13, 14, 15},
                 {21, 22, 23, 24, 25},
                 {31, 32, 33, 34, 35},
                 {41, 42, 43, 44, 45}};
for (int row = 0; row < points.length; row++)
{
    for (int col = points[0].length - 1; col >= row; col--)
    {
        System.out.print(points[row][col] + " ");
    }
    System.out.println();
}
```

What is printed when this code segment is executed?

- (A) 15 14
25 24 23
35 34 33 32
45 44 43 42 41
- (B) 15 14 13 12
25 24 23
35 34
45
- (C) 11 12 13 14 15
21 22 23 24
31 32 33
41 42
- (D) 15 14 13 12 11
25 24 23 22
35 34 33
45 44
- (E) 15 14 13 12 11
25 24 23 22 21
35 34 33 32 31
45 44 43 42 41

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26. Consider the following method, which is intended to print the values in its two-dimensional integer array parameter in row-major order.

```
public static void rowMajor(int[][] arr)
{
    /* missing code */
}
```

As an example, consider the following code segment.

```
int[][] theArray = {{1, 2}, {3, 4}, {5, 6}, {7, 8}};
rowMajor(theArray);
```

When executed, the code segment should produce the following output.

```
1 2 3 4 5 6 7 8
```

Which of the following code segments can replace `/* missing code */` so that the `rowMajor` method works as intended?

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- ```
for (int j : arr)
{
 for (int k : j)
(A) {
 System.out.print(j + " ");
 }
}

for (int j : arr)
{
 for (int k : j)
(B) {
 System.out.print(k + " ");
 }
}

for (int[] j : arr)
{
 for (int k : j)
(C) {
 System.out.print(j + " ");
 }
}

for (int[] j : arr)
{
 for (int k : j)
(D) {
 System.out.print(k + " ");
 }
}

for (int[] j : arr)
{
 for (int k : j)
(E) {
 System.out.print(arr[k] + " ");
 }
}
```

27. Consider the following code segment, where `nums` is a two-dimensional (2D) array of integers. The code segment is intended to print `"test1234"`.

```
System.out.print("test" + nums[0][0] + nums[1][0] + nums[1][1] +
nums[0][1]);
```

Which of the following code segments properly declares and initializes `nums` so that the code segment works as intended?



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- (A) `int[][] nums = {{1, 2}, {3, 4}};`
- (B) `int[][] nums = {{1, 2}, {4, 3}};`
- (C) `int[][] nums = {{1, 3}, {2, 4}};`
- (D) `int[][] nums = {{1, 4}, {2, 3}};`
- (E) `int[][] nums = {{1, 4}, {3, 2}};`

28. Consider the following code segment, where `num` is an integer variable.

```
int[][] arr = {{11, 13, 14 ,15},
 {12, 18, 17, 26},
 {13, 21, 26, 29},
 {14, 17, 22, 28}};
for (int j = 0; j < arr.length; j++)
{
 for (int k = 0; k < arr[0].length; k++)
 {
 if (arr[j][k] == num)
 {
 System.out.print(j + k + arr[j][k] + " ");
 }
 }
}
```

What is printed when `num` has the value 14 ?

- (A) 14 14
- (B) 16 17
- (C) 17 16
- (D) 18 19
- (E) 19 18

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29. Consider the following code segment.

```
String[][] arr = {"Hello,", "Hi,", "Hey,"},
 {"it's", "it is", "it really is"},
 {"nice", "great", "a pleasure"},
 {"to", "to get to", "to finally"},
 {"meet", "see", "catch up with"},
 {"you", "you again", "you all"}};
for (int j = 0; j < arr.length; j++)
{
 for (int k = 0; k < arr[0].length; k++)
 {
 if (k == 1)
 {
 System.out.print(arr[j][k] + " ");
 }
 }
}
```

What, if anything, is printed when the code segment is executed?

- (A) Nothing is printed due to an `ArrayIndexOutOfBoundsException`.
- (B) Hello, it's nice to meet you
- (C) Hey, it really is a pleasure to finally catch up with you all
- (D) Hi, it is great to get to see you again
- (E) it's it is it really is

30. Consider the following code segment.

```
int[][] values = {{1, 2, 3}, {4, 5, 6}};
int x = 0;
for (int j = 0; j < values.length; j++)
{
 for (int k = 0; k < values[0].length; k++)
 {
 if (k == 0)
 {
 values[j][k] *= 2;
 }
 x += values[j][k];
 }
}
```

What is the value of `x` after the code segment is executed?

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- (A) 7
- (B) 17
- (C) 21
- (D) 26
- (E) 27

31. Consider the following code segment.

```
int[][] arr = {{1, 2, 3, 4},
 {5, 6, 7, 8},
 {9, 10, 11, 12}};
int sum = 0;
for (int[] x : arr)
{
 for (int y = 0; y < x.length - 1; y++)
 {
 sum += x[y];
 }
}
```

What is the value of `sum` as a result of executing the code segment?

- (A) 36
- (B) 54
- (C) 63
- (D) 68
- (E) 78

32. Consider the following code segment.

```
int[][] arr = {{1, 2, 3},
 {4, 5, 6},
 {7, 8, 9},
 {3, 2, 1}};
for (int j = 0; j < arr.length; j++)
{
 for (int k = j; k < arr[0].length; k++)
 {
 System.out.print(arr[j][k] + " ");
 }
 System.out.println();
}
```

What output is printed when the code segment is executed?

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- (A) 2 3  
6
- (B) 1 2 3  
4 5  
7
- (C) 1 2 3  
5 6  
9
- (D) 1 4 7  
5 8  
9
- (E) 1 2 3  
5 6  
9  
1

33. Consider the following method.

```
public boolean checkIndexes(double[][] data, int row, int col)
{
 int numRows = data.length;
 if (row < numRows)
 {
 int numCols = data[0].length;
 return col < numCols;
 }
 else
 {
 return false;
 }
}
```

Consider the following variable declaration and initialization, which appears in a method in the same class as `checkIndexes`.

```
double[][] table = new double[5][6];
```

Which of the following method calls returns a value of `true` ?

- (A) `checkIndexes(table, 4, 5)`
- (B) `checkIndexes(table, 4, 6)`
- (C) `checkIndexes(table, 5, 4)`
- (D) `checkIndexes(table, 5, 6)`
- (E) `checkIndexes(table, 6, 5)`