```
1. How many of the following are legal declarations?
[]double lion;
double[] tiger;
double bear[];
  A. None
  B. One
  C. Two
  D. Three
2. How do you determine the number of elements in an array?
  A. buses.length
  B. buses.length()
  C. buses.size
  D. buses.size()
3.Which of the following create an empty two-dimensional array with
dimensions 2×2?
  A. int[][] blue = new int[2, 2];
  B. int[][] blue = new int[2], [2];
  C. int[][] blue = new int[2][2];
  D. int[][] blue = new int[2 \times 2];
4. How many lines does the following code output?
String[] days = new String[] { "Sunday",
                                                   "Monday", "Tuesday",
"Wednesday", "Thursday", "Friday", "Saturday" };
for (int i = 0; i < days.length; <math>i++)
System.out.println(days[i]);
  A. Six
  B. Seven
  C. The code does not compile.
  D. The code compiles but throws an exception at runtime.
5. How many of the following are legal declarations?
String lion [] = new String[] {"lion"};
String tiger [] = new String[1] {"tiger"};
String bear [] = new String[] {};
String ohMy [] = new String[0] {};
```

- A. None
- B. One
- C. Two
- D. Three

6. How many of the following are legal declarations?

```
float[] lion = new float[];
float[] tiger = new float[1];
float[] bear = new[] float;
float[] ohMy = new[1] float;
```

- A. None
- B. One
- C. Two
- D. Three

7.Which line of code causes an ArrayIndexOutOfBoundsException?

```
String[][] matrix = new String[1][2];
matrix[0][0] = "Don't think you are, know you are."; // m1
matrix[0][1] = "I'm trying to free your mind Neo"; // m2
matrix[1][0] = "Is all around you "; // m3
matrix[1][1] = "Why oh why didn't I take the BLUE pill?"; // m4
```

- A. m1
- B. m2
- C. m3
- D. m4

8.Which is the first line to prevent this code from compiling and running without error?

```
char[][] ticTacToe = new char[3,3];  // r1
ticTacToe[1][3] = 'X';  // r2
ticTacToe[2][2] = 'X';
ticTacToe[3][1] = 'X';
System.out.println(ticTacToe.length + " in a row!"); // r3
```

- A. Line r1
- B. Line r2
- C. Line r3
- D. None of the above

```
9. How many of the following are legal declarations?
[][] String alpha;
[] String beta;
String[][] gamma;
String[] delta[];
String epsilon[][];
  A. Two
  B. Three
  C. Four
  D. Five
10.What is a possible output of the following code?
String[] strings = new String[2];
System.out.println(strings);
  A. [null, null]
  B. [,]
  C. [Ljava.lang.String;@74a14482
  D. None of the above
10.What is the output of the following when run as java Count 1 2?
public class Count {
public static void main(String target[]) {
System.out.println(target.length);
}
  A. 0
  B. 1
  C. 2
  D. The code does not compile.
```