1. **What does the following code output?**

String[] os = new String[] { "Mac", "Linux", "Windows" };

Arrays.sort(os);

System.out.println(Arrays.binarySearch(os, "Mac"));

1. **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

1. **How many of the following are legal declarations? Which ones?**

float[] lion = new float[];

float[] tiger = new float[1];

float[] bear = new[] float;

float[] cat = new[1] float;

1. **How many of the following are legal declarations? Which ones?**

String lion [] = new String[] {"lion"};

String tiger [] = new String[1] {"tiger"};

String bear [] = new String[] {};

String cat [] = new String[0] {};

1. **Which of the following creates 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 \* 2];

1. How can you initialize a two-dimensional array in Java?

A. int[][] array = new int[3][4];

B. int[][] array = {{1, 2}, {3, 4}, {5, 6}};

C. Both of the above

D. None of the above

1. What is the output of the following code snippet?  
   int[][] numbers = {{5, 10}, {15, 20, 12}, {19, 13, 8}};  
   System.out.println(numbers[1][0]);
2. What is the output of the following jagged array?

int[][] matrix = {

{1, 2},

{3, 4, 5},

{6, 7, 8, 9}

};

System.out.println(matrix.length);

1. Write a program that creates integer array of n elements taken as an input from user, accepts values of arrays and find Sum, Average, Min and Max for this array.
2. Write a java program to create mirror image of a 2-D array taken as an input from user.