1. What output is produced by the following code fragment?

String m1, m2, m3;

m1 = “Quest for the Holy Grail”;

m2 = m1.toLowerCase(); Prints “quest for the holy grail”

m3 = m1 + “ “ + m2;

System.out.println(m3.replace(‘h’, ‘z’));

Quest for the Zoly Grail quest for the zoly grail

1. What is the output produced by the following code fragment?

String myString = “This is a short string”;

int num1 = myString.indexOf(“short”);

int num2 = myString.indexOf(“cat”);

System.out.println(“Short: “ + num1 + “ Cat: “ + num2);

Short: This Cat: Th

1. What is the output produced by the following code fragment?

String myString = “This is a short string”;

myString = myString.substring(2, 7);

System.out.println(myString);

“I “

1. What is the output by the following code?

String word1 = “blue”;

String word2 = “red”;

String word3 = “green”;

word2 = word3; Green

word1 = word3; Green

word3 = word1; Blue

word3.substring(2); U

System.out.println(word1 + “ “ + word2 + “ “ + word3);

Green Green U

1. What are the results of each of these?
2. -5 + 8 \* 6 = 42 + -5 = 37
3. (55+9) % 9 = Division with a remainder 1
4. 20 + -3\*5 / 8 = 19
5. 5 + 15 / 3 \* 2 - 8 % 3 = 13
6. What's wrong with the following program?

import java.awt.Rectangle;

public class SomethingIsWrong {

public static void main(String[] args) {

Rectangle myRect;

System.out.println("myRect's area is " + myRect.area());

}

}

The variable does not point to anything.

1. What is printed?

class Trace

{

public static void main (String[] args)

{

int x = 7, y = 27, z;

double p = 12.4, q = 2.5;

C(x, x+1);

System.out.print(" ");

y = A(y);

z = y / 4;

C((int)p, z);

System.out.print(" ");

y -= q\*4 + 1;

C(y,y);

System.out.print(" ");

System.out.print(B());

}

public static int A(int offset)

{

int value;

double r = Math.random();

value = (int) (r%1 + offset);

return value;

}

public static String B()

{

String value = "";

String word = "all";

value = value + word;

return value;

}

public static void C(int start, int stop)

{

String w = "University High School";

int z = 5;

start -= z;

System.out.print(w.substring(start, start+1));

System.out.print(w.substring(stop, stop+1));

}

}

8. What is printed?

import java.awt.Rectangle;

class Main {

public static void main(String[] args) {

Rectangle box1 = new Rectangle(10 x, 20 y, 30, 40);

Rectangle box2 = box1;

mystery1(box2);

System.out.println("box1: " + box1 + "\nbox2: " + box2);

String word1 = "ludite";

String word2 = word1;

mystery2(word2, word1.length()/2);

System.out.println("word1: " + word1 + " word2: " + word2);

}

public static double mystery1(Rectangle box1){

box1.setLocation((int) box1.getY(), (int) box1.getX());

box1.setSize((int) box1.getX(), (int) box1.getY());

return box1.getX();

}

public static String mystery2(String word1, int index){

String j = word1.substring(index);

String k = word1.substring(0, index);

word1 = j + k;

return word1;

}

}

9. What is printed?

import java.awt.Rectangle;

class Main {

public static void main(String[] args) {

int num = 3;

double decimal = 5.7;

boolean tOrF = false;

String word = "ludite";

Rectangle box = new Rectangle(10, 20, 30, 40);

mystery1(num, decimal, tOrF, word, box);

System.out.println(num);

System.out.println(decimal);

System.out.println(tOrF);

System.out.println("word: " + word);

System.out.println("box: " + box);

}

public static void mystery1(int num, double decimal, boolean tOrF, String word, Rectangle box){

num = num + 1;

decimal = decimal \* 2;

tOrF = true;

word = word.substring(3,5);

box.setLocation((int) box.getY(), (int) box.getX());

}

}