In class Exercises

(Section 3.3 B)

1. What's the output of the following code segment?

Do it on paper. Show values for i and j as they change.

for (int i = 1; i <= 3; i++) {

for (int j = i; j >= 0; j--) {

System.out.println ( i + " " + j);

}

}

2. What's the output of the following code segment?

Do it on paper. Show values for i , j , n .

int n;

for (int i = 1; i <= 2; i++) {

n = i + 3;

for (int j = n; j <= 10; j += n) {

System.out.println(j);

}

System.out.println(n);

}

3. Given a constant N, display a box of N asterisks. For example, if N is 5, you display

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\* \*

\* \*

\* \*

\*\*\*\*\*

Do everything in *for* loops. In print or println statements, only print one character

(blank or \*). Below is the start of the program.

import java.util.Scanner;

public class Problem3 {

public static void main( String[] args ) {

Scanner keyboard = new Scanner(System.in);

System.out.print("Enter an integer: ");

int n = keyboard.nextInt();

1. 2.

1 1 4

1 0 8

2 2 4

2 1 5

2 0 10

3 3 5

3 2

3 1

3 0

3.

import java.util.Scanner;

public class Problem3 {

public static void main( String[] args ) {

Scanner keyboard = new Scanner(System.in);

System.out.print("Enter an integer: ");

int n = keyboard.nextInt();

for (int i = 1; i <= n; i++) {

for (int j = 1; j <= n; j++) {

if ( i == 1 || i == n )

System.out.print("\*");

else if ( j == 1 || j == n )

System.out.print("\*");

else

System.out.print(" ");

}

System.out.println();

}

}

}