Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

AP Computer Science A (Java) - Arrays Questions

Answer Questions 1 through 4 on this sheet. Name your file LastanmeArrayQ.docx.

1. What elements are contained in the array numbers when the following code is executed?

int[] numbers = new int[8];

numbers[1] = 4;

numbers[4] = 99;

numbers[7] = 2;

int x = numbers[1];

numbers[x] = 44;

numbers[numbers[7]] = 11; // uses numbers[7] as the index

numbers[0] = \_\_\_\_\_\_\_\_0.

numbers[1] = \_\_\_\_\_\_\_\_\_4\_\_\_\_.

numbers[2] = \_\_\_\_\_\_\_\_\_\_11\_\_\_.

numbers[3] = \_\_\_\_\_\_\_\_\_\_\_\_\_.

numbers[4] = \_\_\_\_\_\_\_\_\_44\_\_\_\_.

numbers[5] = \_\_\_\_\_\_\_\_\_\_\_\_\_.

numbers[6] = \_\_\_\_\_\_\_\_\_\_\_\_\_.

numbers[7] = \_\_\_\_\_\_\_2\_\_\_\_\_\_.

1. Write code that declares an array called data and contains the elements 7, -1, 13, 24, and 6.

Statement(s):

int[] data = {7, -1, 13, 24, 6};

1. What are the values of the elements in the array numbers after the following code is executed?

int[] numbers = {10, 20, 30, 40, 50, 60, 70, 80, 90, 100};

for (int i = 1; i < 10; i++)

numbers[i] = numbers[i - 1];

Values of the elements in the array numbers: 10, 10, 10, 10, 10, 10, 10, 10, 10, 10

1. Consider the following method, mystery:

public static void mystery(int[] a, int[] b) {

for (int i = 0; i < a.length; i++)

a[i] += b[b.length – 1 – i];

}

What are the values of the elements in the array a1 and a2 after the following code executes?

int[] a1 = {1, 3, 5, 7, 9};

int[] a2 = {1, 4, 9, 16, 25};

mystery(a1, a2);

a1: \_\_\_\_\_\_\_26, 19, 14, 11, 10\_\_\_\_\_\_ a2: \_\_\_\_\_\_\_1, 4, 9, 16, 25\_\_\_\_\_\_