Quiz 9

Name: ______________________________

1) Given the following declarations:
   int a = 2;
   int b = 3;
   double x = 2.0;
   double y = 1.5;
   double[] list = {2.1, 3.8, 0.4};

   For each of the following assignments, if the code is legal Java, draw a diagram showing
   the contents of the array and circle the element modified by the assignment; otherwise
   write “ERROR.”
   
   a) list[0] = a;

   b) list[3] = 0;

   c) list[x] = 4;

   d) list[a] = b;

2) Draw a diagram showing the array contents after execution of the following code fragment:

   int[] list = new int[4];
   for (int i=0; i < list.length; i++)
       list[i] = list.length - i;

3) Assume an array list has been declared and initialized as in the previous question. Write a code
   fragment that uses a loop to add 2 to each array element.
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Name:______________________________

1. Given the following declarations:
   int a = 2;
   int b = 3;
   double x = 2.0;
   double y = 1.5;
   double[] list = {2.1, 3.8, 0.4};

   For each of the following assignments, if the code is legal Java, draw a diagram showing
   the contents of the array and circle the element modified by the assignment; otherwise
   write “ERROR.”

   a) list[1] = a;

   b) list[a] = 0;

   c) list[b] = 4;

   d) list[x] = a;

2. Show the output produced by the following code fragment:

   double[] list = new double[4];
   for (int i=0; i < list.length; i++)
     list[i] = i * 10;
   for (int i=0; i < list.length; i++)
     System.out.println(list[i]);

3. Write a code fragment to create an array of 5 boolean values and to set them all to true
   using an initializer list.

4. Repeat the above exercise, without using an initializer list.