1. Given the following declarations:
   int a = 2;
   int b = 3;
   double x = 2.0;
   double y = 1.5;
   double[] list = new double[3];
   a) Draw a diagram depicting the contents of the array list with its default values.

   b) For each of the following assignments, if the code is legal Java, redraw the diagram from (a) and circle the element modified by the assignment; otherwise write “ERROR.”
      • list[1] = x;
      • list[x] = a;
      • list[b - a] = 3;
      • list[b] = 4;

2. Show the output produced by the following code fragment:
   double[] list = new double[5];
   for (int i=0; i < list.length; i++)
     list[i] = i + 5;
   for (int i=list.length - 1; i >= 0; i--)
     System.out.println(list[i]);

3. Write a code fragment to create an array named bunchOfM of 5 char values and to set them all to the character ‘M’.

4. Are the following lines horizontal, vertical, or neither?
   • new Line(30, 90, 30, 10)
   • new Line(20, 40, 150, 40)
1. Given the following declarations:
   int a = 3;
   int b = 2;
   double x = 2.0;
   double y = 1.5;
   double[] list = new double[4];

   a) Draw a diagram depicting the contents of the array with its default values.

   b) For each of the following assignments, if the code is legal Java, redraw the diagram from (a) and circle the element modified by the assignment; otherwise write “ERROR.”
   • list[x] = 1;
   • list[b] = y;
   • list[b - a] = 3;
   • list[1] = -6;

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

   ```java
double[] list = new double[3];
for (int i=0; i < list.length; i++)
   list[i] = i * 5;
for (int i=list.length - 1; i >= 0; i--)
   System.out.println(list[i]);
```

3. Write a code fragment to create an array named itsAllTrue of 100 values of type boolean and to set them all to the value true.

4. Are the following ellipses wider than tall or taller than wide?
   • new Ellipse(300, 100, 30, 10)
   • new Ellipse(200, 40, 100, 40)