```
public static void computeStats (int [ ] numbers)
     int length = numbers.length;
    double med, var, sd, mean, sum, varsum;
     sum = 0;
    for (int i = 0; i < length; i++)
         sum += numbers [ i ];
    med = numbers [ length / 2];
    mean = sum / (double) length;
    varsum = 0;
    for (int i = 0; i < length; i++)
         varsum = varsum + ((numbers[I] - mean) * (numbers[I] - mean));
    var = varsum / ( length - 1.0 );
    sd = Math.sqrt ( var );
    System.out.println ("length:
                                                      " + length);
    System.out.println ("mean:
                                                      " + mean);
    System.out.println ("median:
                                                      " + med);
    System.out.println ("variance:
                                                      " + var);
                                                     " + sd);
    System.out.println ("standard deviation:
}
```

```
// Introduction to Software Testing
// Authors: Paul Ammann & Jeff Offutt
// Chapter 3, section 3.3, page 121
// Jeff Offutt--Java version Feb 2003
// Classify triangles
import java.io.*;
class trityp
   private static String[] triTypes = { "", // Ignore 0.
     "scalene", "isosceles", "equilateral", "not a valid triangle"};
  private static String instructions = "This is the ancient TriTyp program.\nEnter
three integers that represent the lengths of the sides of a triangle.\nThe triangle
will be categorized as either scalene, isosceles, equilateral\nor invalid.\n";
public static void main (String[] argv)
  // Driver program for trityp
   int A, B, C;
  int T;
  System.out.println (instructions);
   System.out.println ("Enter side 1: ");
  A = getN();
  System.out.println ("Enter side 2: ");
  B = getN();
  System.out.println ("Enter side 3: ");
  C = getN();
  T = Triang(A, B, C);
  System.out.println ("Result is: " + triTypes[T]);
}
// Read (or choose) an integer
private static int getN ()
   int inputInt = 1;
   BufferedReader in = new BufferedReader (new InputStreamReader (System.in));
  String inStr;
   try
              = in.readLine ();
     inputInt = Integer.parseInt(inStr);
   catch (IOException e)
      System.out.println ("Could not read input, choosing 1.");
   catch (NumberFormatException e)
   {
      System.out.println ("Entry must be a number, choosing 1.");
  return (inputInt);
} // end getN
} // end trityp class
```

```
// The main triangle classification method
private static int Triang (int Side1, int Side2, int Side3)
   int triOut;
   // triOut is output from the routine:
        Triang = 1 if triangle is scalene
   //
        Triang = 2 if triangle is isosceles
   //
   //
        Triang = 3 if triangle is equilateral
   //
        Triang = 4 if not a triangle
   // After a quick confirmation that it's a valid
   // triangle, detect any sides of equal length
   if (Side1 <= 0 || Side2 <= 0 || Side3 <= 0)
     triOut = 4;
     return (triOut);
   triOut = 0;
   if (Side1 == Side2)
      triOut = triOut + 1;
   if (Side1 == Side3)
     triOut = triOut + 2;
   if (Side2 == Side3)
     triOut = triOut + 3;
   if (triOut == 0)
   { // Confirm it's a valid triangle before declaring
      // it to be scalene
    if (Side1+Side2 <= Side3 | Side2+Side3 <= Side1 | |
       Side1+Side3 <= Side2)</pre>
       triOut = 4;
    else
       triOut = 1;
    return (triOut);
   // Confirm it's a valid triangle before declaring
   // it to be isosceles or equilateral
   if (triOut > 3)
     triOut = 3;
   else if (triOut == 1 && Side1+Side2 > Side3)
     triOut = 2;
   else if (triOut == 2 && Side1+Side3 > Side2)
      triOut = 2;
   else if (triOut == 3 && Side2+Side3 > Side1)
     triOut = 2;
   else
     triOut = 4;
   return (triOut);
} // end Triang
```