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1  /*
2  * Three sides can form a triangle if the sum of the lengths of any two sides
   is greater than the length of the remaining side.
3  * This is known as the Triangle Inequality Theorem.
4  * This program tests if three given integers form a triangle.
5  */
6  public class Triangle {
7      public static void main(String[] args) {
8          int a = Integer.parseInt(args[0]);
9          int b = Integer.parseInt(args[1]);
10         int c = Integer.parseInt(args[2]);
11         boolean isTriangle;
12         // Tests if three given integers form a triangle according to
           Triangle Inequality Theorem.
13         isTriangle = ((a > 0) && (b > 0) && (c > 0) && (a < b + c) && (b < a +
           c) && (c < a + b));
14         System.out.println(a + ", " + b + ", " + c + ": " + isTriangle);
15     }
16 }
17
```