```
 1  // joi/2/arithmetic/IntArithmetic.java
 2  //
 3  //
 4  // Copyright 2003 Bill Campbell and Ethan Bolker
 5
 6  /**
 7   * Interactive play with integer arithmetic in Java,
 8   * using a Terminal for input and output.
 9   */
10
11  public class IntArithmetic
12  {
13      private static Terminal terminal = new Terminal();
14
15      /**
16       * main prompts for pairs of numbers to add and to divide
17       * until the bored user decides to quit.
18       */
19
20      public static void main(String[] args)
21      {
22          while ( terminal.readYesOrNo( "Try int z = x + y ? " ) ) {
23              tryIntegerAddition( );
24          }
25          while ( terminal.readYesOrNo( "Try int z = x / y ? " ) ) {
26              tryIntegerDivision();
27          }
28      }
29
30      // Prompt for two ints and add them.
31
32      private static void tryIntegerAddition()
33      {
34          int x = terminal.readInt( "x = ");
35          int y = terminal.readInt( "y = " );
36          terminal.println( "z = " + (x+y) );
37      }
38
39      // Prompt for two ints and divide the first by
40      // the second.
41
42      private static void tryIntegerDivision()
43      {
44          int x = terminal.readInt( "x = ");
45          int y = terminal.readInt( "y = " );
46          terminal.println( "z = " + (x/y) );
47      }
48  }
```