```
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   }
```