```
1   // Pythagorean Triples:  Ch 3, lab exercize 1.
2
3   import java.io.*;
4
5   public class PythagLim {
6       public static void main( String args[] ) throws IOException {
7
8           int side1, side2, hypotenuse, count;
9
10          count = 0;
11
12          for (side1 = 1 ; side1 <= 250 ; side1++) {
13              for (side2 = side1 + 1 ; side2 <= 250 ; side2++) {
14                  for (hypotenuse = side2 + 1 ; hypotenuse < 500 ;
15                       hypotenuse++) {
16                      if ( ( side1 * side1 + side2 * side2) ==
17                           (hypotenuse * hypotenuse)) {
18                          count++;
19                          System.out.println( count + ": " + side1 + ", " +
20                                                      side2 + ", " + hypotenuse );
21                      }
22                  }
23              }
24          }
25
26      }
27
28  }
29
30
```

```
1   // Pythagorean Triples:  Ch 3, lab exercize 1.
2
3   import java.io.*;
4
5   public class Pythag {
6       public static void main( String args[] ) throws IOException {
7
8           int side1, side2, hypotenuse, count;
9           double hypo;
10
11          count = 0;
12
13          for (side1 = 1 ; side1 <= 250 ; side1++) {
14              for (side2 = side1 + 1 ; side2 <= 250 ; side2++) {
15                  hypo = Math.sqrt(side1*side1+side2*side2);
16                  hypotenuse = (int) hypo;
17                  if ( hypo == hypotenuse) {
18                      count++;
19                      System.out.println( count + ": " + side1 + ", " +
20                                          side2 + ", " + hypotenuse );
21                  }
22              }
23          }
24      }
25
26  }
27
28
29
30
```

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