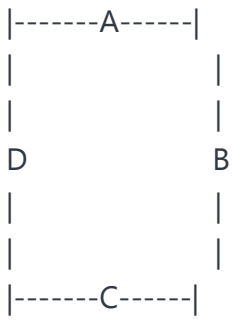
☆ Polygons

Identify whether four sides (given by four integers) can form a square, a rectangle or neither.

Input:
Each line of the input describes a single polygon, and contains four space-separated integers, which represent the length of the sides of the polygon. The input lines will follow the 'A B C D' order as in the following representation:



Output:
A single line which contains 3 space-separated integers, representing the number of squares, number of rectangles and number of other polygons with 4 sides.
Note that squares shouldn't be counted as rectangles. Invalid polygons should also be counted as 'other polygons'.

Constraints
The four integers representing the sides will be such that: -2000 <= **X** <= 2000
(Where X represents the integer)

Sample Input:

```
36 30 36 30
15 15 15 15
46 96 90 100
86 86 86 86
100 200 100 200
-100 200 -100 200
```

Sample Output:

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YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour. Start tour

For help on how to read input and write output in Java 7, click here.

Original code | Java 7

```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8      public static void main(String args[] ) throws Exceptio
   {
9          /* Enter your code here. Read input from STDIN. Pri
   output to STDOUT */
10     }
11 }
```

Line: 1 Col: 1

Test against custom input

Run Code | Submit code & Continue

(You can submit any number of times)

Download sample test cases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*

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1

2

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