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B.Hacking Android - the challeng...





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## ☆ Polygons - Java



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

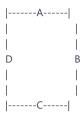


2

### 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:

3



## 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:  $-2000 \le X \le 2000$  (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:

```
2 2 2
```

## YOUR ANSWER

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

```
Java 7
                                                                          View Code Diff
                                                                                                                       (3)
     import
            java.io.*;
2
    import java.util.*;
3
     import java.text.*;
4
    import java.math.*;
    import java.util.regex.*;
5
6
    public class Solution {
8
            public static void main(String args[] ) throws Exception {
                   /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9
10
                   Scanner sc = new Scanner(System.in);
                   int n = sc.nextInt();
11
12
                   for(int t = 0; t < n; t++)
13
                           int a = sc.nextInt();
```

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