A	B	C
1	2	7
1	7	2
7	2	1
2	2	2
2	2	3
2	3	4
-1	3	4
3	-1	4
3	4	-1
2	3	4
2	3	2
2	2	4
4	2	2
2	4	2
3	2	2

```java
import org.junit.*;

import java.util.Random;

import static org.junit.Assert.assertEquals;

public class tritypTest {

    trityp tri=new trityp();

    //      Triang = 1 if triangle is scalene

    //      Triang = 2 if triangle is isosceles

    //      Triang = 3 if triangle is equilaterala

    //      Triang = 4 if not a triangle

    @Test
    public void testTriang_4(){

        assertEquals(4,tri.Triang(1,2,7));

        assertEquals(4,tri.Triang(1,7,2));

        assertEquals(4,tri.Triang(7,2,1));

        assertEquals(3,tri.Triang(2,2,2));

        assertEquals(2,tri.Triang(2,2,3));

        assertEquals(1,tri.Triang(2,3,4));
```

```java
        assertEquals(4,tri.Triang(-1,3,4));

        assertEquals(4,tri.Triang(3,-1,4));

        assertEquals(4,tri.Triang(3,4,-1));

        assertEquals(1,tri.Triang(2,3,4));

        assertEquals(2,tri.Triang(2,3,2));

        assertEquals(4,tri.Triang(2,2,4));

        assertEquals(4,tri.Triang(4,2,2));

        assertEquals(4,tri.Triang(2,4,2));

        assertEquals(4,tri.Triang(3,2,2));
    }
}
```