

Angewandte Mathematik

1. Protokoll: 22.03.2011

11172 Relational Operator

Java-Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

public class Apl {
    public static void main(String[] args) {
        BufferedReader reader = new BufferedReader(new InputStreamReader(System.in));
        try {
            String inputLine = reader.readLine();
            int c = Integer.parseInt(inputLine);
            for(int i=0; i<c; i++){
                inputLine = reader.readLine();
                String[] x = inputLine.split(" ");
                int a = Integer.parseInt(x[0]);
                int b = Integer.parseInt(x[1]);
                if (a==b) System.out.println("=");
                else {
                    if(a<b) System.out.println("<");
                    else System.out.println(">");
                }
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

Ergebnis:

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10071 Back to High School Physics

Java-Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

public class Main {
    public static void main(String[] args) throws IOException
    {
        BufferedReader in = new BufferedReader(new InputStreamReader(System.in));
        String input;
        String[] temp;
        int v;
        int t;
        while ((input=in.readLine())!=null)
        {
            temp = input.split(" ");
            v = Integer.parseInt(temp[0]);
            t = Integer.parseInt(temp[1]);
            System.out.println(v*t*2);
        }
    }
}
```

Ergebnis:

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10038 Jolly Jumpers

Java-Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Collections;

public class Main {

    public static void main(String[] args) throws IOException {
        try {
            BufferedReader in = new BufferedReader(new InputStreamReader(System.in));
            String input;
            String[] temp;
            boolean jolly;
            ArrayList<Integer> numbers = new ArrayList<Integer>();
            while (!(input = in.readLine()).isEmpty()) {
                jolly = true;
                temp = input.split(" ");
                int count = temp.length - 1;
                if (Integer.valueOf(temp[0]) == 0) jolly = false;

                for (int i = 1; i < count; i++)
                    numbers.add(Math.abs(Integer.valueOf(temp[i]) -
                        Integer.valueOf(temp[i + 1])));

                Collections.sort(numbers);

                for (int i = 0; i < count - 1; i++)
                    if (numbers.get(i) != i + 1) jolly = false;

                if (jolly) System.out.println("Jolly");
                else System.out.println("Not jolly");
                numbers.clear();
            }
        } catch (Exception e) {
        }
    }
}
```

Ergebnis:

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