4/20/2016 Cube 3x3x3

# Cube 3x3x3

Usually in any contest of ICPC, there should be at least one problem which every contestant could answer.

Given T, following by T lines of two integer A, B.

Count how many integer N satisfied  $A \le N^3 \le B$ .

#### **Constraints**

```
1 \le T \le 100
1 \le A \le B \le 10^{12}
```

### **Sample Input**

```
2
7 17
25 100
```

### **Sample Output**

```
Case #1: 1
Case #2: 2
```

# **Sample Case Explanation**

For 1st sample case, there is  $N = \{2\}$ , which satisfied the equation.

For 2nd sample case, there are  $N = \{3, 4\}$ , which satisfied the equation.