**Perfect Squares in a Range**

[maths](http://www.practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)

Given two given numbers a and b where 1<=a<=b, find the number of perfect squares between a and b (a and b inclusive).

**Input:**  
First line of input contains number of test cases T. Each line of test case contain numbers 'a' and 'b' seperated by a single space.  
  
**Output:**  
Number of perfect squares are displayed.  
  
**Constraints:**  
1 <=T<= 30  
1 <=a<b<= 1000  
  
**Example:  
Input:**  
2  
9 25  
1 1000

**Output:**  
3  
31

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=528>

#include <stdio.h>

#include <iostream>

#include <map>

#include <vector>

#include <math.h>

using namespace std;

int main() {

    int t;

    scanf("%d", &t);

    while(t--) {

       int a,b;

       scanf("%d %d", &a, &b);

       int ans =0;

       for(int i=a; i<=b; i++) {

          int raiz = (int)sqrt(i);

          if(raiz \* raiz == i) {

             ans ++;

          }

       }

       printf("%d**\n**", ans);

    }

    return 0;

}