Problem Link:

<https://codeforces.com/problemset/problem/2008/C>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **int** main() {
* **int** t;
* cin >> t;
* **while**(t--) {
* **long** **long** l, r;
* cin >> l >> r;
* **long** **long** d = r - l;
* **long** **long** left = 1, right = 2e5, s = 1;
* **while**(left <= right)
* {
* **long** **long** m = (left + right) / 2;
* **if**(m \* (m - 1) / 2 <= d)
* {
* s = m;
* left = m + 1;
* }
* **else**
* {
* right = m - 1;
* }
* }
* cout << s << **"\n"**;
* }
* }