Problem Link:

<https://codeforces.com/problemset/problem/1352/C>

Solution:

* **#include** **<iostream>**
* **using** **namespace** std;
* **long** **long** solve(**long** **long** n, **long** **long** k) {
* **long** **long** l = 1, h = k \* n, m, d;
* **while**(l < h)
* {
* m = (l + h) / 2;
* d = m - (m / n);
* **if**(d >= k)
* {
* h = m;
* }
* **else**
* {
* l = m + 1;
* }
* }
* **return** l;
* }
* **int** main() {
* **int** t;
* **long** **long** n, k;
* cin >> t;
* **while**(t--)
* {
* cin >> n >> k;
* cout << solve(n, k) << **"\n"**;
* }
* **return** 0;
* }