Problem Link:

<https://codeforces.com/problemset/problem/1878/C>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **int** main() {
* **int** t;
* cin >> t;
* **while**(t--) {
* **long** **long** n, k, x;
* cin >> n >> k >> x;
* **long** **long** mins = k \* (k + 1) / 2;
* **long** **long** maxs = k \* (2 \* n - k + 1) / 2;
* **if**(x >= mins && x <= maxs)
* cout << **"YES\n"**;
* **else**
* cout << **"NO\n"**;
* }
* **return** 0;
* }