Problem Link:

<https://codeforces.com/problemset/problem/1845/A>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **int** main() {
* **int** t;
* cin >> t;
* **while**(t--) {
* **int** n, k, x;
* cin >> n >> k >> x;
* **vector<int>** v;
* **for**(**int** j = 1; j <= k; ++j)
* **if**(j != x)
* v.push\_back(j);
* **if**(v.empty())
* {
* cout << **"NO\n"**;
* **continue**;
* }
* **int** s = v[0];
* **if**(s != x && n % s == 0)
* {
* cout << **"YES\n"**;
* cout << n / s << **'\n'**;
* **for**(**int** i = 0; i < n / s; ++i)
* cout << s << **' '**;
* cout << **"\n"**;
* **continue**;
* }
* **vector<int>** dp(n + 1, -1);
* dp[0] = 0;
* **for**(**int** i = 1; i <= n; ++i)
* {
* **for**(**int** num : v)
* {
* **if**(i >= num && dp[i - num] != -1)
* {
* dp[i] = num;
* **break**;
* }
* }
* }
* **if**(dp[n] == -1)
* {
* cout << **"NO\n"**;
* }
* **else**
* {
* **vector<int>** r;
* **int** c = n;
* **while**(c > 0)
* {
* r.push\_back(dp[c]);
* c -= dp[c];
* }
* cout << **"YES\n"**;
* cout << r.size() << **"\n"**;
* **for**(**int** val : r)
* cout << val << **' '**;
* cout << **"\n"**;
* }
* }
* **return** 0;
* }