**Kth Element of Two Sorted Arrays**

#include<bits/stdc++.h>

int ninjaAndLadoos(vector<int>& r1, vector<int>& r2, int m, int n, int k) {

if (n < m) {

return ninjaAndLadoos(r2, r1, n, m, k);

}

int low = max(0, k - n);

int high = min(k, m);

while (low <= high) {

int cut1 = (low + high) >> 1;

int cut2 = k - cut1;

int a1 = (cut1 == 0) ? -1e9 : r1[cut1 - 1];

int a2 = (cut2 == 0) ? -1e9 : r2[cut2 - 1];

int b1 = (cut1 == m) ? 1e9 : r1[cut1];

int b2 = (cut2 == n) ? 1e9 : r2[cut2];

if (a1 <= b2 && a2 <= b1) {

return max(a1, a2);

} else if (a1 > b2) {

high = cut1 - 1;

} else {

low = cut1 + 1;

}

}

return 1;

}