**The Celebrity Problem**

#include <bits/stdc++.h>

using namespace std;

bool knows(int A, int B);

int findCelebrity(int n) {

int candidate = 0;

// Step 1: Find the potential candidate for being a celebrity

for (int i = 1; i < n; i++) {

if (knows(candidate, i)) {

candidate = i;

}

}

// Step 2: Validate if the candidate is a celebrity

for (int i = 0; i < n; i++) {

if (i != candidate && (knows(candidate, i) || !knows(i, candidate))) {

return -1; // The candidate is not a celebrity

}

}

return candidate; // Return the celebrity ID

}