#include <iostream>

#include <vector>

#include <unordered\_map>

Int findCenter(int n, std::vector<std::pair<int, int>>& edges) {

Std::unordered\_map<int, int> degreeCount;

For (auto edge : edges) {

degreeCount[edge.first]++;

degreeCount[edge.second]++;

}

For (auto& node : degreeCount) {

If (node.second == n – 1) {

Return node.first;

}

}

Return -1;

}

Int main() {

Int n = 5;

Std::vector<std::pair<int, int>> edges = {{1, 2}, {1, 3}, {1, 4}, {1, 5}};

Int center = findCenter(n, edges);

If (center != -1) {

Std::cout << “The center of the star graph is node: “ << center << std::endl;

} else {

Std::cout << “Invalid star graph.” << std::endl;

}

Return 0;

}