Problem Link:

<https://leetcode.com/problems/course-schedule-iv/?envType=daily-question&envId=2025-01-27>

Solution:

class Solution {

public:

vector<bool> checkIfPrerequisite(int numCourses, vector<vector<int>>& prerequisites, vector<vector<int>>& queries) {

vector<vector<bool>> v(numCourses, vector<bool>(numCourses, false));

for(const auto& p : prerequisites)

{

v[p[0]][p[1]] = true;

}

for(int k = 0; k < numCourses; ++k)

{

for(int i = 0; i < numCourses; ++i)

{

for(int j = 0; j < numCourses; ++j)

{

if(v[i][k] && v[k][j])

{

v[i][j] = true;

}

}

}

}

vector<bool> res;

for(const auto& q : queries)

{

res.push\_back(v[q[0]][q[1]]);

}

return res;

}

};