**Bellman Ford**

#include <bits/stdc++.h>

using namespace std;

int bellmonFord(int n, int m, int src, int dest, vector<vector<int>>& edges) {

vector<int> distances(n + 1, 1e9);

distances[src] = 0;

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

for (int j = 0; j < m; j++) {

int u = edges[j][0];

int v = edges[j][1];

int w = edges[j][2];

if (distances[u] != 1e9 && (distances[u] + w) < distances[v]) {

distances[v] = distances[u] + w;

}

}

}

bool hasNegativeCycle = false;

for (int j = 0; j < m; j++) {

int u = edges[j][0];

int v = edges[j][1];

int w = edges[j][2];

if (distances[u] != 1e9 && (distances[u] + w) < distances[v]) {

hasNegativeCycle = true;

break;

}

}

if (!hasNegativeCycle) {

return distances[dest];

}

return -1;

}