function solution2\_3\_sol() {

let input = gets().split(' ');

let nodes = gets().split(' ');

let degree = Array(nodes.length).fill(0);

let graph = {};

for (let i = 0; i < nodes.length; i++) {

graph[nodes[i]] = [];

}

for (let i = 0; i < Number(input[1]); i++) {

let temp = gets().split(' ');

graph[temp[0]].push(temp[1]);

degree[nodes.indexOf(temp[1])]++;

}

let result = Array(nodes.length).fill(0);

function topology() {

let queue = [];

for (let i = 0; i < degree.length; i++) {

if (degree[i] == 0) queue.push(nodes[i]);

}

for (let i = 0; i < nodes.length; i++) {

//처리 안함

if (queue.length == 0) {

return;

}

let node = queue.shift();

result[i] = node;

graph[node].forEach(e => {

let temp = e;

degree[nodes.indexOf(temp)]--;

if (degree[nodes.indexOf(temp)] == 0) {

queue.push(temp);

}

})

}

}

topology();

print(result.join(' '));

}