#include <bits/stdc++.h>

using namespace std;

vector<int> dynamicArray(int n, vector<vector<int>> queries) {

vector<vector<int>> arr(n);

vector<int> result;

int lastAnswer = 0;

for (const auto& query : queries) {

int type = query[0];

int x = query[1];

int y = query[2];

int index = (x ^ lastAnswer) % n;

if (type == 1) {

arr[index].push\_back(y);

} else if (type == 2) {

lastAnswer = arr[index][y % arr[index].size()];

result.push\_back(lastAnswer);

}

}

return result;

}

int main() {

int n, q;

cin >> n >> q;

vector<vector<int>> queries(q, vector<int>(3));

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

cin >> queries[i][0] >> queries[i][1] >> queries[i][2];

}

vector<int> result = dynamicArray(n, queries);

for (int answer : result) {

cout << answer << endl;

}

return 0;

}