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Lava

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 by [grebnesieh](#)

Problem

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Submitted 3 months ago • Score: 10.00

Status: **Accepted**

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✓	Test Case #24				

Submitted Code

Language: C++

Open in editor

```

1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int height[1123][1123], visited[1123][1123], ans[1123]
  [1123];
5 int dx[] = {0, 1, 0, -1};
6 int dy[] = {1, 0, -1, 0};
7
8 int main() {
9     int N, M, a, b, flowing_out = 0, level;
10    priority_queue<pair<int, pair<int,int> > > q;
11    cin >> N >> M;
12    for(int i = 0; i < N; i += 1)
13        for(int j = 0; j < M; j += 1)
14            cin >> height[i][j];
15    cin >> a >> b;
16    level = height[a][b];
17    q.push(make_pair(-level, make_pair(a,b)));
18    while(!q.empty()) {
19        int h = -q.top().first;
20        int i = q.top().second.first, j =
  q.top().second.second;
21        q.pop();
22        if (h > level && flowing_out)
23            break;
24        else {
25            level = max(h, level);
26            ans[i][j] = 1;
27            for(int k = 0; k < 4; k += 1) {
28                int x = i + dx[k], y = j + dy[k];
29                if (x < 0 || x >= N || y < 0 || y >= M)
30                    flowing_out = 1;
31                else if (!visited[x][y]) {
32                    visited[x][y] = 1;
33                    q.push(make_pair(-height[x][y],
  make_pair(x,y)));
34                }
35            }
36        }
37    }
38    for(int i = 0; i < N; i += 1) {
39        for(int j = 0; j < M; j += 1)
40            cout << ans[i][j] << " ";
41        cout << endl;
42    }
43 }

```

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