

Area of Component

Problem	Submissions	Leaderboard	Discussions
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Submitted 2 minutes ago • Score: 20.00

Status: Accepted

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5
✓	Test Case #6	✓	Test Case #7	✓	Test Case #8
✓	Test Case #9	✓	Test Case #10	✓	Test Case #11
✓	Test Case #12	✓	Test Case #13	✓	Test Case #14
✓	Test Case #15	✓	Test Case #16	✓	Test Case #17
✓	Test Case #18	✓	Test Case #19	✓	Test Case #20
✓	Test Case #21	✓	Test Case #22	✓	Test Case #23
✓	Test Case #24	✓	Test Case #25	✓	Test Case #26
✓	Test Case #27	✓	Test Case #28	✓	Test Case #29
✓	Test Case #30	✓	Test Case #31		

Submitted Code

Language: C++20

Open in editor

```
1 #include<bits/stdc++.h>
2 using namespace std;
3
4 const int N = 1e3+6;
5 int n, m;
6 char ar[N][N];
7 bool visited[N][N];
8 int cnt ;
9 vector<pair<int,int>> comp;
10 vector<int> compSize;
11
12 vector<pair<int,int>> path = {{-1,0},{1,0},{0,-1},{0,1}};
13 bool isValid(int ci, int cj)
14 {
15     if(ci >=0 and ci<n and cj >=0 and cj<m)
16         return true;
17     else
18         return false;
19 }
20
```

```
21 void dfs(int si, int sj)
22 {
23     visited[si][sj] = true;
24     comp.push_back({si,sj});
25     for(auto v : path)
26     {
27         int ci = si + v.first;
28         int cj = sj + v.second;
29
30         if(isValid(ci,cj) and !visited[ci][cj] and ar[ci][cj] == '.')
31         {
32             dfs(ci,cj);
33         }
34     }
35 }
36 }
37
38
39 int main()
40 {
41
42     cin >> n >> m ;
43     for(int i = 0; i < n; i++)
44     {
45         for(int j = 0; j < m; j++)
46         {
47             cin >> ar[i][j];
48         }
49     }
50
51
52
53     for(int i = 0; i < n; i++)
54     {
55         for(int j = 0; j < m; j++)
56         {
57             if(!visited[i][j] and ar[i][j] == '.')
58             {
59
60                 dfs(i,j);
61                 // cnt++;
62                 // for(auto v : comp)
63                 // {
64                 //     cout << v.first << ", " << v.second << " ";
65                 // }
66                 // cout << endl;
67                 compSize.push_back(comp.size());
68
69                 comp.clear();
70
71
72             }
73
74         }
75     }
76
77     int mn = INT_MAX;
78     for(auto el : compSize)
79     {
80         // cout << el << endl;
81         mn = min(mn, el);
82     }
83     // cout << mn << endl;
84     if(mn == INT_MAX) cout << -1 << endl;
85     else cout << mn << endl;
86 }
```

```
87  
88  
89  
90     return 0;  
91 }
```

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