Description | Solution | Discuss (645) | Submissions | *i* C++ | Aut

694. Number of Distinct Islands

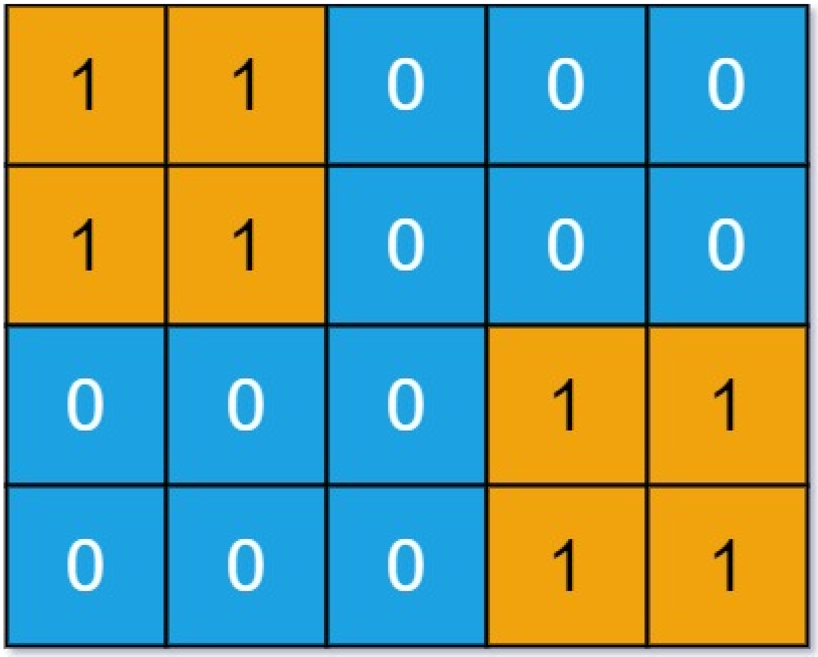
Medium | 1988 | 124 | Add to List | Share

You are given an `m x n` binary matrix `grid`. An island is a group of `1`'s (representing land) connected **4-directionally** (horizontal or vertical.) You may assume all four edges of the grid are surrounded by water.

An island is considered to be the same as another if and only if one island can be translated (and not rotated or reflected) to equal the other.

Return *the number of **distinct** islands*.

Example 1:



1	1	0	0	0
1	1	0	0	0
0	0	0	1	1
0	0	0	1	1

```
Input: grid = [[1,1,0,0,0],[1,1,0,0,0],[0,0,0,1,1],
[0,0,0,1,1]]
Output: 1
```

Example 2:

```
class Solutic
public:
    bool vali
y,int n,int
m,vector<vect
    {
        if(x<
or y>=m or gr
            r
        retur
    }

    void dfs(
n,int m,vectc
grid,string &
    {
        grid[

        int c
{0,1,0,-1,0};

        for(i
        {
            i
arr[i];
            i
arr[i+1];

 if(valid(new
)
            {

char('0'+i);

 dfs(newx,new
            }
        }
        str +
    }

    int
numDistinctIs
tor<int>>& gr
        int r
        int m
grid[0].size(
        int c

 unordered_se
        for(i
0;i<n;i++)
```

Problems | Pick One | ‹ Prev | /149 | Next › | Contribute *i* | ▶ Run Code