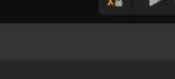


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Input: isConnected = [[1,1,0],[1,1,0],[0,0,1]]

Output: 2

Example 2:



Input: isConnected = [[1,0,0],[0,1,0],[0,0,1]]

Output: 3

Constraints:

- 1 <= n <= 200
- n == isConnected.length
- n == isConnected[i].length
- isConnected[i][j] is 1 or 0.
- isConnected[i][i] == 1

Code

```

C++
1 // isConnected[i][j] == 1 means visited(i)
2 dfs(isConnected, visited, j);
3
4 }
5
6 }
7
8
9
10
11
12 int findCircleNum(vector<vector<int>>& isConnected) {
13     int n = isConnected.size();
14     vector<bool> visited(n, false);
15     int provinces = 0;
16
17     for (int i = 0; i < n; ++i) {
18         if (!visited[i]) {
19             ++provinces;
20             dfs(isConnected, visited, i);
21         }
22     }
23
24     return provinces;
25
26 };

```

Saved

In 26, Col 3

Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

leetcode.com/problems/binary-tree-maximum-path-sum/

Problem List

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124. Binary Tree Maximum Path Sum

Hard

Topics

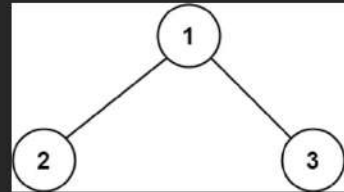
Companies

A **path** in a binary tree is a sequence of nodes where each pair of adjacent nodes in the sequence has an edge connecting them. A node can only appear in the sequence **at most once**. Note that the path does not need to pass through the root.

The **path sum** of a path is the sum of the node's values in the path.

Given the `root` of a binary tree, return *the maximum path sum of any non-empty path*.

Example 1:



```
graph TD; 1((1)) --- 2((2)); 1 --- 3((3));
```

Input: root = [1,2,3]
Output: 6

17.4K 237 186 Online

Code

C++

Auto

```
8 *   TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
9 *   TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left), right(right) {}
10 * };
11 */
12 class Solution {
13 public:
14     int maxSum = INT_MIN;
15
16     int dfs(TreeNode* node) {
17         if (!node) return 0;
18
19         int left = max(0, dfs(node->left));
20         int right = max(0, dfs(node->right));
21
22         maxSum = max(maxSum, left + right + node->val);
23
24         return node->val + max(left, right);
25     }
26
27     int maxPathSum(TreeNode* root) {
28         dfs(root);
29         return maxSum;
30     }
31 }
```

Saved

Ln 31, Col 3

Testcase

Test Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Medium Topics Companies

- **Connect:** A cell is connected to adjacent cells horizontally or vertically.

- To capture a **surrounded region**, replace all 'O' s with 'X' s **in-place** within the original board. You do not need to return anything.

```
Input: board = [
["X","X","X","X"],
["X","0","0","X"],
["X","X","0","X"],
["X","0","X","X"]
]
```

Explanation:

9.1K 216 122 Online

C++   Auto

Testcase > Test Result

Accepted Runtime: 0 ms

- Case 1
- Case 2

The screenshot shows the LeetCode interface for the "Word Ladder" problem. The top navigation bar includes links like Home, Problem List, Run, Submit, and Premium. The main content area displays the problem title "127. Word Ladder" with a difficulty level of "Hard". Below the title, there's a detailed description of the problem: finding the shortest transformation sequence from a start word to an end word using words from a dictionary, where each step differs by exactly one letter. Constraints specify the length of words and the size of the dictionary. Two examples are provided: Example 1 shows a path from "hit" to "cog" through "hot" and "dot", resulting in a length of 5; Example 2 shows no valid path exists between "kiss" and "cog". A C++ code snippet is shown on the right, implementing a breadth-first search algorithm to find the shortest path.

127. Word Ladder

Hard

A transformation sequence from word `beginWord` to word `endWord` using a dictionary `wordList` is a sequence of words `beginWord -> s1 -> s2 -> ... -> sk` such that:

- Every adjacent pair of words differs by a single letter.
- Every s_i for $1 \leq i \leq k$ is in `wordList`. Note that `beginWord` does not need to be in `wordList`.
- $s_k == endWord$

Given two words, `beginWord` and `endWord`, and a dictionary `wordList`, return *the number of words in the shortest transformation sequence from beginWord to endWord, or 0 if no such sequence exists.*

Example 1:

```
Input: beginWord = "hit", endWord = "cog", wordList = ["hot","dot","dog","lot","log","cog"]
Output: 5
Explanation: One shortest transformation sequence is "hit" -> "hot" -> "dot" -> "dog" -> "cog", which is 5 words long.
```

Example 2:

```
Input: beginWord = "kiss", endWord = "cog", wordList = ["hot","dot","dog","lot","log","cog"]
Output: 0
Explanation: No shortest transformation sequence exists.
```

```
C++ Code
class Solution {
public:
    int ladderLength(string beginWord, string endWord, vector<string>& wordList) {
        unordered_set<string> wordSet(wordList.begin(), wordList.end());
        if (wordSet.find(endWord) == wordSet.end()) return 0;

        queue<pair<string, int>> q;
        q.push({beginWord, 1});

        while (!q.empty()) {
            string word = q.front().first;
            int length = q.front().second;
            q.pop();

            for (int i = 0; i < word.length(); ++i) {
                string temp = word;
                for (char c = 'a'; c <= 'z'; ++c) {
                    temp[i] = c;
                    if (temp == endWord) return length + 1;
                    if (wordSet.find(temp) != wordSet.end()) {
                        q.push({temp, length + 1});
                    }
                }
            }
        }

        return 0;
    }
};
```

leetcode.com/problems/number-of-islands/submissions/1599292768/

Accepted 49 / 49 testcases passed

MohitBehal submitted at Apr 07, 2025 12:45

Runtime: 18 ms | Beats 97.51% | Memory: 16.14 MB | Beats 88.90%

Runtime distribution chart showing performance relative to other submissions.

Code (C++):

```
class Solution {
public:
    void dfs(vector<vector<char>>& grid, int i, int j) {
        int m = grid.size();
        int n = grid[0].size();
        if (i < 0 || i >= m || j < 0 || j >= n || grid[i][j] == '0') return;
        grid[i][j] = '0';
        dfs(grid, i + 1, j);
        dfs(grid, i - 1, j);
        dfs(grid, i, j + 1);
        dfs(grid, i, j - 1);
    }

    int numIslands(vector<vector<char>>& grid) {
        if (grid.empty()) return 0;
        int m = grid.size();
        int n = grid[0].size();
        int count = 0;
        for (int i = 0; i < m; ++i) {
            for (int j = 0; j < n; ++j) {
                if (grid[i][j] == '1') {

```

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

329. Longest Increasing Path in a Matrix

Given an $m \times n$ integers `matrix`, return the length of the longest increasing path in `matrix`.

Example 1:

Input: matrix = [[9,9,4],[6,6,8],[2,1,1]]

67 Online

C++ Auto

Testcase | Test Result

Accepted Runtime: 0 ms

- Case 1
- Case 2
- Case 3

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Example 1:

Input: numCourses = 2, prerequisites = [[1,0]]
Output: true
Explanation: There are a total of 2 courses to take.
 To take course 1 you should have finished course 0. So it is possible.

Example 2:

Input: numCourses = 2, prerequisites = [[1,0],[0,1]]
Output: false
Explanation: There are a total of 2 courses to take.
 To take course 1 you should have finished course 0, and to take course 0 you should also have finished course 1. So it is impossible.

Constraints:

- 1 <= numCourses <= 2000
- 0 <= prerequisites.length <= 5000
- prerequisites[i].length == 2
- 0 <= a_i, b_i < numCourses
- All the pairs prerequisites[i] are **unique**.

Code

```

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
};

queue<int> q;
for (int i = 0; i < numCourses; ++i) {
    if (indegree[i] == 0) q.push(i);
}

int count = 0;
while (!q.empty()) {
    int course = q.front(); q.pop();
    count++;

    for (int neighbor : graph[course]) {
        indegree[neighbor]--;
        if (indegree[neighbor] == 0) q.push(neighbor);
    }
}

return count == numCourses;

```

Saved

Ln 26, Col 10

Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

17K
237

602 Online

- Case 2
- Case 3