Our Solution(s) Run Code

Solution 1 Solution 2

```cpp
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using namespace std;

// O(n) time | O(n) space - where n is the total number of elements in the array
void spiralFill(vector<vector<int>> array, int startRow, int endRow,
                int startCol, int endCol, vector<int> &result) {
  if (startRow > endRow || startCol > endCol) {
    return;
  }

  for (int col = startCol; col <= endCol; col++) {
    result.push_back(array[startRow][col]);
  }

  for (int row = startRow + 1; row <= endRow; row++) {
    result.push_back(array[row][endCol]);
  }

  for (int col = endCol - 1; col >= startCol; col--) {
    if (startRow == endRow)
      break;
    result.push_back(array[endRow][col]);
  }

  for (int row = endRow - 1; row >= startRow + 1; row--) {
    if (startCol == endCol)
      break;
    result.push_back(array[row][startCol]);
  }

  spiralFill(array, startRow + 1, endRow - 1, startCol + 1, endCol - 1, result);
}

vector<int> spiralTraverse(vector<vector<int>> array) {
  if (array.size() == 0)
    return {};

  vector<int> result = {};
  spiralFill(array, 0, array.size() - 1, 0, array[0].size() - 1, result);
  return result;
}

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```cpp
using namespace std;

vector<int> spiralTraverse(vector<vector<int>> array) {
  // Write your code here.
  return {};
}

```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.