# 1380. Lucky Numbers in a Matrix

## SOLUTION IN C++

class Solution {

public:

vector<int> luckyNumbers(vector<vector<int>>& matrix) {

for (const vector<int>& row : matrix) {

const int minIndex = distance(row.begin(), ranges::min\_element(row));

if (row[minIndex] == maxNumOfColumn(matrix, minIndex))

return {row[minIndex]};

}

return {};

}

private:

int maxNumOfColumn(const vector<vector<int>>& matrix, int j) {

int res = 0;

for (int i = 0; i < matrix.size(); ++i)

res = max(res, matrix[i][j]);

return res;

}

};