770. Maximum and Minimum

* [Description](http://lintcode.com/en/problem/maximum-and-minimum/#description)
* [Notes](http://lintcode.com/en/problem/maximum-and-minimum/#note)
* [Testcase](http://lintcode.com/en/problem/maximum-and-minimum/#testcase)
* [Judge](http://lintcode.com/en/problem/maximum-and-minimum/#judge)

Given a matrix, return the maximum number and the minimum number.

 Notice

Your need to return a integer array, that array[0] represent the maximum and array[1] represent the minimum.

Have you met this question in a real interview?

Yes

**Example**

Given a matrix:

[

[1,2,3],

[4,3,2],

[6,4,4]

]

return [6,1]

[http://lintcode.com/en/problem/maximum-and-minimum/#](http://lintcode.com/en/problem/maximum-and-minimum/)

#include <iostream>

#include <stdio.h>

#include <vector>

using namespace std;

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

// write your code here

if( matrix.empty() ) {

vector<int> v;

return v;

}

int max = matrix[0][0], min = matrix[0][0] ;

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

for(int j =0; j<matrix[i].size(); j++) {

if(matrix[i][j] > max) {

max = matrix[i][j];

}

if(matrix[i][j] < min) {

min = matrix[i][j];

}

}

}

// return new int[]{max, min};

vector<int> res;

res.push\_back(max);

res.push\_back(min);

return res;

}

int main() {

/\*

int m[][3] =

{

{1,2,3},

{4,3,2},

{6,4,4}

};\*/

vector<vector<int> > v;

for(int i =0; i < 3; i++) {

vector<int> fila;

for(int j =0; j<3; j++) {

fila.push\_back(m[i][j]);

}

v.push\_back(fila);

}

vector<int> res = maxAndMin(v);

cout << res[0] << " " << res[1] << endl;

return 0;

}