A - Matrix column sum

Given a matrix of size N x M, print column-wise sum, separated by a newline.

**Input Format**

The first line of input contains N, M - the size of the matrix. Its followed by N lines each containing M integers - elements of the matrix.

**Constraints**

1 <= N, M <= 100  
-106 <= ar[i] <= 106

**Output Format**

Print column-wise sum of the matrix, separated by newline.

**Sample Input 0**

2 2

5 -1

19 8

**Sample Output 0**

24

7

**Explanation 0**

Self Explanatory.

#include <iostream>

#include <vector>

using namespace *std*;

void fill2DMatrix(*vector*<*vector*<long long int>>& matrix)

{

long long int ele;

int rows = matrix.*size*(), cols = matrix[0].*size*();

for (auto i = 0; i < rows; i++)

{

for (auto j = 0; j < cols; j++)

{

*cin* >> ele;

matrix[i][j] = ele;

}

}

}

void printColumnWiseSum(*vector*<*vector*<long long int>>&matrix) {

int rows = matrix.*size*();

int cols = matrix[0].*size*();

for (auto j = 0; j < cols; j++)

{

long long int colSum = 0;

for (auto i = 0; i < rows; i++)

{

colSum += matrix[i][j];

}

*cout* << colSum << *endl*;

}

}

int main()

{

int n, m; *cin* >> n >> m;

*vector*<*vector*<long long int>> matrix(n, *vector*<long long int>(m));

fill2DMatrix(matrix);

printColumnWiseSum(matrix);

return 0;

}