Given a rectangular matrix and an integer column, return an array containing the elements of the columnth column of the given matrix (the leftmost column is the 0th one).

**Example**

For

matrix = [[1, 1, 1, 2],

[0, 5, 0, 4],

[2, 1, 3, 6]]

and column = 2, the output should be  
extractMatrixColumn(matrix, column) = [1, 0, 3].

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] array.array.integer matrix**

2-dimensional array of integers representing a rectangular matrix.

*Constraints:*  
1 ≤ matrix.length ≤ 4,  
1 ≤ matrix[0].length ≤ 4,  
0 ≤ matrix[i][j] ≤ 300.

* **[input] integer column**

An integer not greater than the number of matrixcolumns.

*Constraints:*  
0 ≤ column ≤ matrix[i].length - 1.

* **[output] array.integer**

<https://codefights.com/arcade/code-arcade/list-backwoods/zwXiykHLor6eKHaLY>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int[] extractMatrixColumn(int[][] matrix, int column)

{

List<int> col = new List<int>();

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

{

col.Add(matrix[i][column]);

}

return col.ToArray();

}

static void Main(string[] args)

{

int[][] matrix =

{

new int[] {1, 1, 1, 2},

new int[] {0, 5, 0, 4},

new int[] {2, 1, 3, 6}

};

int column = 2;

foreach (int elem in extractMatrixColumn(matrix, column))

{

Console.Write(elem + " ");

}

Console.ReadLine();

}

}

}