Define a multiplication table of size n by m as follows: such table consists of n rows and mcolumns. Cell on the intersection of the ith row and the jthcolumn (i, j > 0) contains the value of i \* j.

Given integers n and m, find the number of different values that are found in the table.

Example

For n = 3 and m = 2, the output should be  
differentValuesInMultiplicationTable(n, m) = 5.

Input/Output

* **[execution time limit] 3 seconds (cs)**
* **[input] integer n**

A positive integer.

Guaranteed constraints:  
1 ≤ n ≤ 20.

* **[input] integer m**

A positive integer.

Guaranteed constraints:  
1 ≤ m ≤ 20.

* **[output] integer**

<https://app.codesignal.com/challenge/diFFHsGg27MQkh2DD>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp3

{

class Program

{

static int differentValuesInMultiplicationTable(int n, int m)

{

//int[][] tabla = new int[n][];

HashSet<int> hash = new HashSet<int>();

for(int i =0; i<n; i++)

{

//tabla[i] = new int[m];

for(int j =0; j<m; j++)

{

// tabla[i][j] = (i+1) \* (j+1);

hash.Add((i+1) \* (j+1));

}

}

return hash.Count;

}

static void Main(string[] args)

{

Console.WriteLine( differentValuesInMultiplicationTable(4, 4));

Console.ReadLine();

}

}

}