Given an array of numbers find the smallest 32 bit integer such that each number in the array evenly divides it.

Ex:

Array = [2,3,5]

30 would be the smallest number that is evenly divisible by all values in the array.

* **[execution time limit] 3 seconds (cs)**
* **[input] array.integer m**
* **[output] integer**

**[C#] Syntax Tips**

// Prints help message to the console

// Returns a string

**string** **helloWorld**(**string** name) {

Console.Write("This prints to the console when you Run Tests");

**return** "Hello, " + name;

}

<https://app.codesignal.com/challenge/6B8MGQ2tGadt4FWGQ>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Collections;

using System.IO;

namespace ConsoleApplication1

{

class Program

{

static int gcd(int a, int b)

{

if (b == 0)

return a;

return gcd(b, a % b);

}

// method to return

// LCM of two numbers

static int lcm(int a, int b)

{

return (a \* b) / gcd(a, b);

}

static int multiple(int[] m)

{

int lc = m[0];

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

{

lc = lcm(lc, m[i]);

}

return lc;

}

static void Main(string[] args)

{

int[] m = { 2, 3, 5 };

Console.WriteLine(multiple(m));

Console.ReadLine();

}

}

}