**5 kyu**

**Least Common Multiple**

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C#

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Write a function that calculates the *least common multiple* of its arguments; each argument is assumed to be a non-negative integer. In the case that there are no arguments (or the provided array in compiled languages is empty), return 1.

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

static int gcd(int a, int b)

{

if (b == 0)

return a;

return gcd(b, a % b);

}

public static int Lcm(List<int> nums)

{

if (nums.Count == 0) return 1;

//throw new NotImplementedException();

int ans = nums[0];

int n = nums.Count;

// ans contains LCM of arr[0], ..arr[i]

// after i'th iteration,

for (int i = 1; i < n; i++)

ans = (((nums[i] \* ans)) /

(gcd(nums[i], ans)));

return ans;

}

static void Main(string[] args)

{

int[] arr = { 2, 7, 3, 9, 4 };

int n = arr.Length;

Console.WriteLine( Lcm(arr.ToList()));

Console.ReadLine();

}

}

}