For a given positive integer N find the sum of positive integers that are not greater than N and are coprime with N.

* **[time limit] 3000ms (cs)**
* **[input] integer N**

1 ≤ N ≤ 5 \* 10^4

* **[output] integer**

sum of coprimes

<https://codefights.com/challenge/vkapYqr2Nbd7uWmrZ/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int GCD(int a, int b)

{

if (a == 0)

{

return b;

}

return GCD(b % a, a);

}

static bool sonCoprimos(int a, int b)

{

if (GCD(a, b) == 1) return true;

return false;

}

static int coprimeSum(int N)

{

int sum = 0;

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

{

if (sonCoprimos(i, N))

{

sum += i;

}

}

return sum;

}

static void Main(string[] args)

{

}

}

}