Author

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https://codefights.com/img/coins_new.png1000

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

An integer K between 1 and 100000 inclusive.

* **[output] integer**

The Kth prime number

<https://codefights.com/challenge/AZ2TcRpM5ZQFhzw6z/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static bool esPrimo(int n)

{

if (n < 2) return false;

if (n == 2) return true;

if (n % 2 == 0) return false;

int sqr = (int)Math.Sqrt(n);

for (int i = 3; i <= sqr; i += 2)

{

if (n % i == 0) return false;

}

return true;

}

static int Kth\_Prime(int K)

{

int kth = 0;

int primo = 0;

for (int i = 1;kth < K ; i++)

{

if (esPrimo(i))

{

primo = i;

kth++;

}

}

return primo;

}

static void Main(string[] args)

{

Console.WriteLine(Kth\_Prime(10));

Console.ReadLine();

}

}

}