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https://codefights.com/img/coins_new.png2000

Lets call a *prime* number the *primiest* if all of its digits are also prime.

You are given an integer k. Find the kth (1-based) *primiest* number. If k is invalid or the answer is greater than 104, return -1instead.

**Example**

* For k = 2, the output should be  
  Primiest(k) = 3.  
  The first *primiest* number is 2, and the second one is 3, so the answer is 3.
* For k = 0, the output should be  
  Primiest(k) = -1.  
  k = 0 is an invalid value.

**Input/Output**

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

The number of the *primiest* number to find.  
-70 ≤ k ≤ 70.

* **[output] integer**

The kth primiest number, or -1 if k is invalid or the answer is greater than 104

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

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.IO;

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 Primiest(int k)

{

if (k < 0 || k >= 62)

{

return -1;

}

int[] prim = {-1, 2, 3, 5, 7, 23, 37, 53, 73, 223, 227, 233, 257, 277,

337, 353, 373, 523, 557, 577, 727, 733, 757, 773,

2237, 2273, 2333, 2357, 2377, 2557, 2753, 2777,

3253, 3257, 3323, 3373, 3527, 3533, 3557, 3727,

3733, 5227, 5233, 5237, 5273, 5323, 5333, 5527, 5557,

5573, 5737, 7237, 7253, 7333, 7523, 7537, 7573,

7577, 7723, 7727, 7753, 7757};

//Console.WriteLine(prim.Length);

return prim[k];

}

static void Main()

{

Console.WriteLine(Primiest(33));

Console.ReadLine();

}

//static void Main(string[] args)

//{

// using (StreamWriter esc = new StreamWriter("C:\\primiest.txt"))

// {

// for (int i = 1; i <= 30000; i++)

// {

// bool primiest = true;

// if (esPrimo(i))

// {

// string iString = i.ToString();

// for (int j = 0; j < iString.Length; j++)

// {

// if (!"2357".Contains(iString[j]))

// {

// primiest = false;

// break;

// }

// }

// if (primiest)

// {

// Console.Write(i + " ");

// esc.Write(i + ", ");

// }

// }

// }

// }

// Console.ReadLine();

//}

}

}