**6 kyu**

**Twin Prime**

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C#

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A twin prime is a prime number that differs from another prime number by 2. Write a function named is\_twin\_prime which takes an int parameter and returns true if it is a twin prime, else false.

example:

given 5, which is prime

5+2=7 which is prime

5-2=3 which is prime

Hence , 5 has two prime twins and its a Twin Prime.

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given 7, which is prime

7-2=5 which is prime

7+2=9 which is not prime

Hence, 7 has one prime twin, and its a Twin Prime.

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given 9, which is not prime

Hence, 9 is not a Twin Prime

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given 953 , which is prime

953-2=951 , which is not prime

953+2=955 , which is not prime

Hence, 953 is not a Twin Prime.

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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 bool EsPrimo(int n)

{

if (n < 2) return false;

if (n == 2) return true;

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

for (int i = 3; i \* i <= n; i += 2)

{

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

}

return true;

}

public static bool IsTwinPrime(int n)

{

//throw new NotImplementedException();

if (EsPrimo(n))

{

if (EsPrimo(n - 2) || EsPrimo(n + 2))

{

return true;

}

}

return false;

}

static void Main(string[] args)

{

Console.ReadLine();

}

}

}