UNSA

UNIVERSIDAD NACIONAL DE SAN AGUSTÍN DE AREQUIPA

FACULTAD DE INGENIERÍA Y PRODUCCIÓN DE SERVICIOS

ESCUELA PROFESIONAL DE CIENCIA DE LA COMPUTACIÓN

CIENCIA DE LA COMPUTACIÓN II

PRÁCTICA DE LABORATORI0 01

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GRUPO	: C
SEMESTRE	: 2021 - A
PROFESOR	: Álvaro Mamani Aliaga
FECHA DE ENTREGA	: 23 de abril de 2021

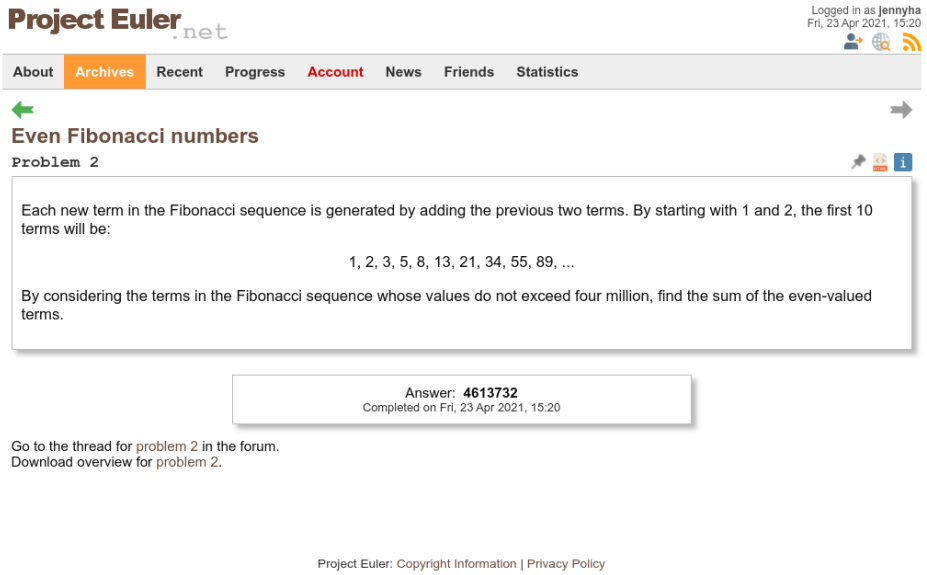
Arequipa – Perú

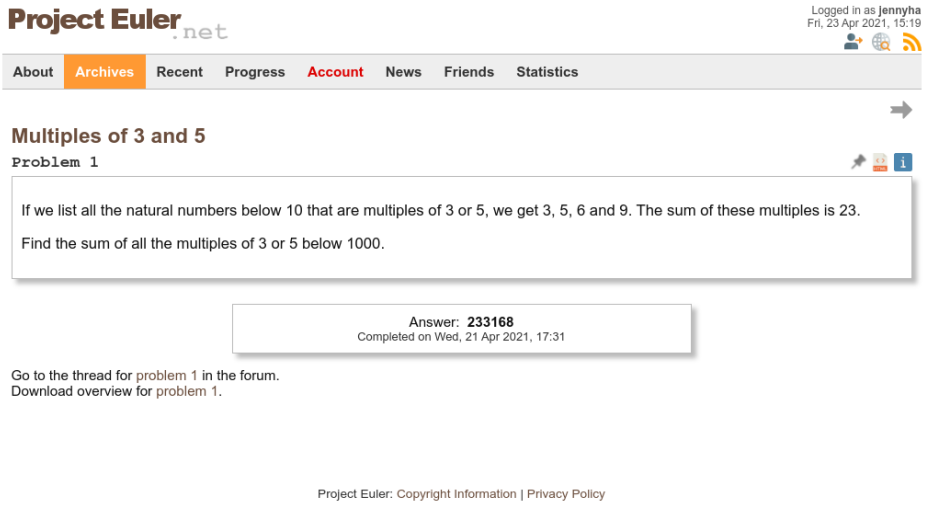
2021

RESOLUCIÓN DE PROBLEMAS PROJECT EULER

Repositorio de los ejercicios:
https://github.com/J-Machine/Ciencia-de-la-Computacion-II/tree/main/LAB/Practica%2001

1.





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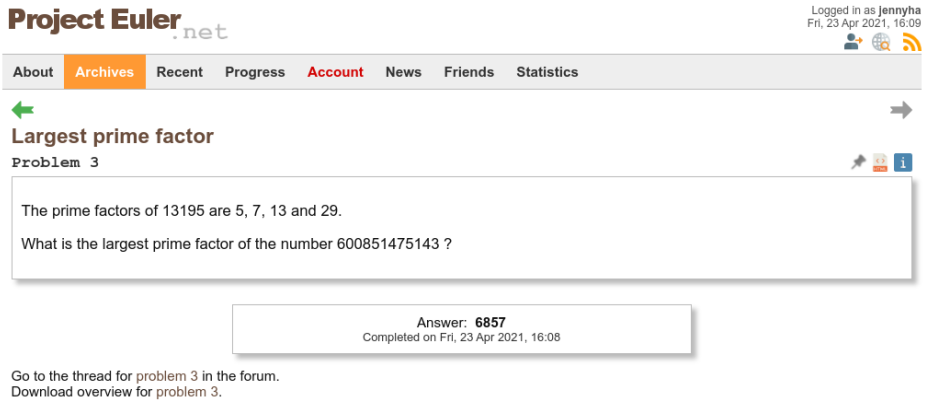
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Fri, 23 Apr 2021, 16:09
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Largest prime factor
Problem 3
The prime factors of 13195 are 5, 7, 13 and 29.
What is the largest prime factor of the number 600851475143 ?
Answer: 6857
Completed on Fri, 23 Apr 2021, 16:08
Go to the thread for problem 3 in the forum.
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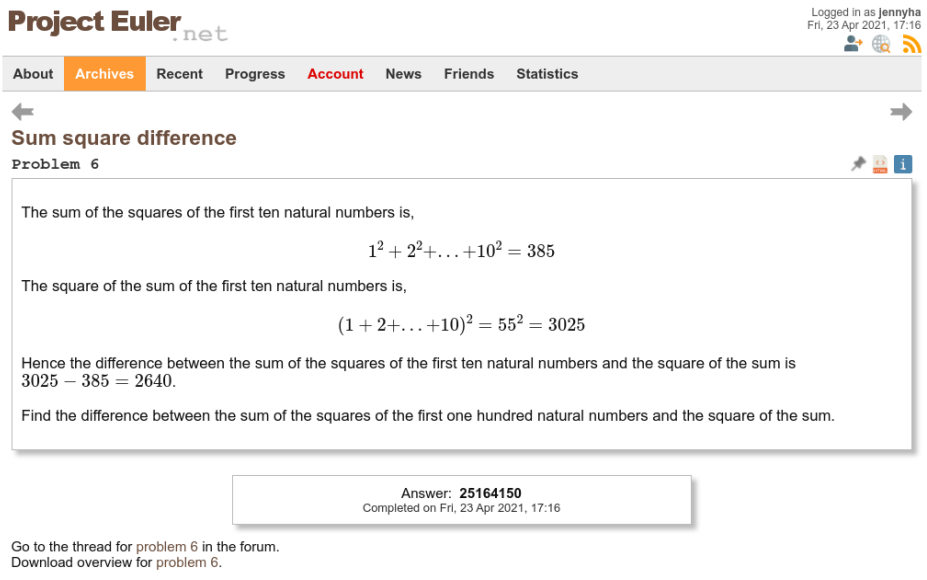
4.

5.

6.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Sum square difference
Problem 6
The sum of the squares of the first ten natural numbers is,
$1^2 + 2^2 + \ldots + 10^2 = 385$
The square of the sum of the first ten natural numbers is,
$(1 + 2 + \ldots + 10)^2 = 55^2 = 3025$
Hence the difference between the sum of the squares of the first ten natural numbers and the square of the sum is $3025 - 385 = 2640$.
Find the difference between the sum of the squares of the first one hundred natural numbers and the square of the sum.
Answer: 25164150
Completed on Fri, 23 Apr 2021, 17:16
Go to the thread for problem 6 in the forum.
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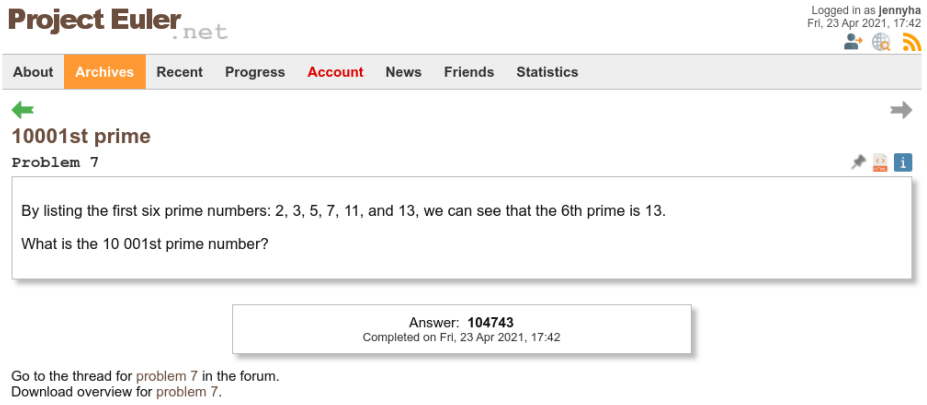
7.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10001st prime
Problem 7
By listing the first six prime numbers: 2, 3, 5, 7, 11, and 13, we can see that the 6th prime is 13.
What is the 10 001st prime number?
Answer: 104743
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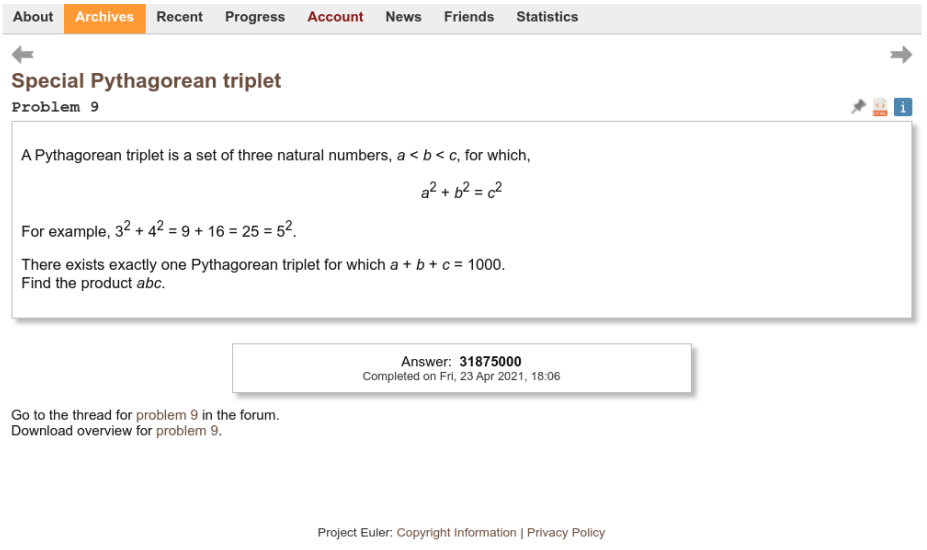
8.

9.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Special Pythagorean triplet
Problem 9
A Pythagorean triplet is a set of three natural numbers, a < b < c, for which,
a2 + b2 = c2
For example, 32 + 42 = 9 + 16 = 25 = 52.
There exists exactly one Pythagorean triplet for which a + b + c = 1000.
Find the product abc.
Answer: 31875000
Completed on Fri, 23 Apr 2021, 18:06
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10.