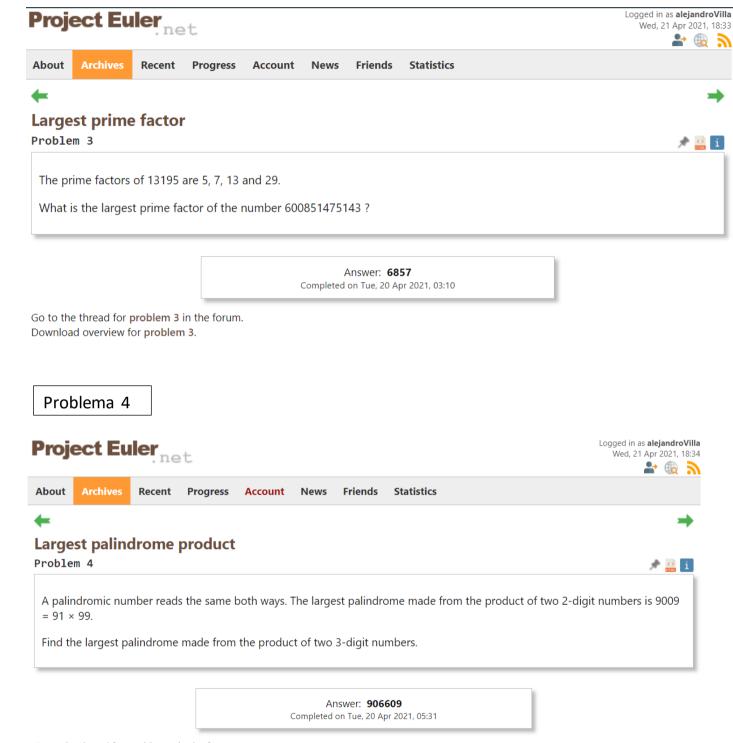
Capturas de pantalla

Problema 1



Go to the thread for **problem 2** in the forum. Download overview for **problem 2**.



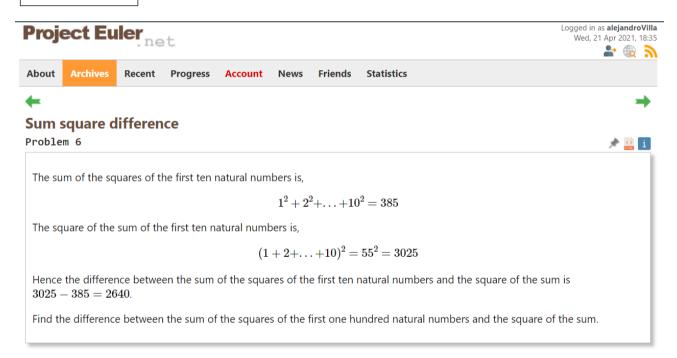
Go to the thread for **problem 4** in the forum. Download overview for **problem 4**.



Answer: **232792560** Completed on Tue, 20 Apr 2021, 05:58

Go to the thread for **problem 5** in the forum. Download overview for **problem 5**.

Problema 6



Answer: **25164150** Completed on Tue, 20 Apr 2021, 03:40

Go to the thread for **problem 6** in the forum. Download overview for **problem 6**.





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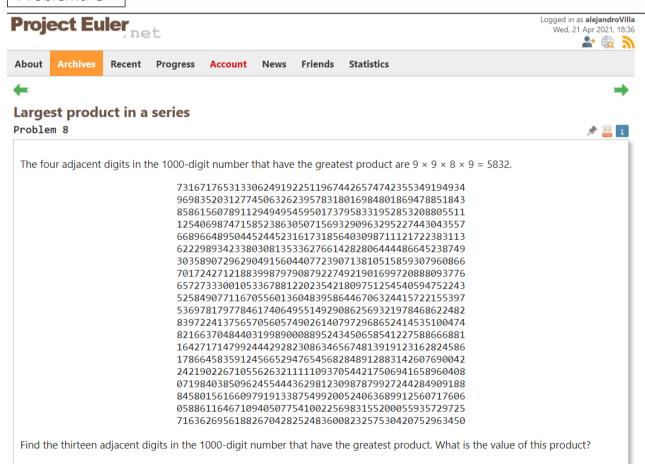


What is the 10 001st prime number?

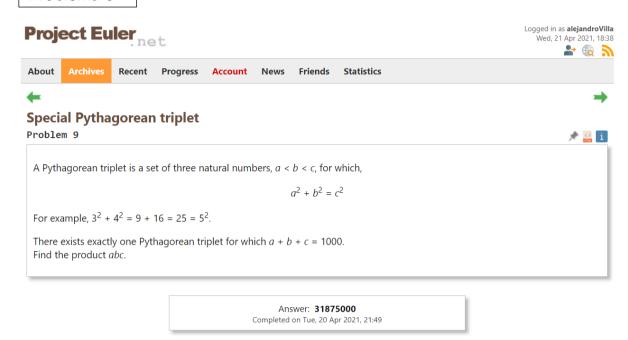
Answer: **104743** Completed on Tue, 20 Apr 2021, 17:41

Go to the thread for **problem 7** in the forum. Download overview for **problem 7**.

Problema 8



Answer: **23514624000** Completed on Tue, 20 Apr 2021, 19:30



Go to the thread for **problem 9** in the forum. Download overview for **problem 9**.

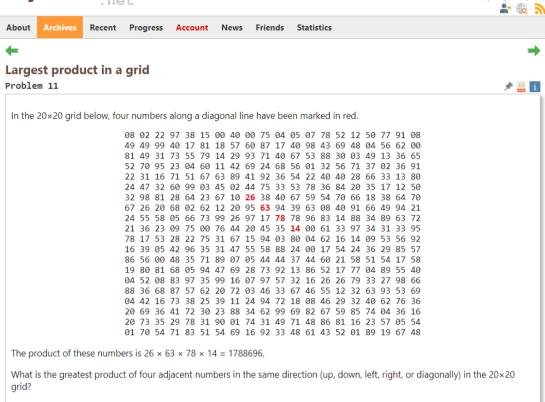
Problema 10



Go to the thread for **problem 10** in the forum. Download overview for **problem 10**.







Answer: **70600674** Completed on Wed. 21 Apr 2021, 18:23

Go to the thread for problem 11 in the forum.



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The sequence of triangle numbers is generated by adding the natural numbers. So the 7^{th} triangle number would be 1 + 2 + 3 + 4 + 5 + 6 + 7 = 28. The first ten terms would be:

1, 3, 6, 10, 15, 21, 28, 36, 45, 55, ...

Let us list the factors of the first seven triangle numbers:

3: 1,3 6: 1,2,3,6

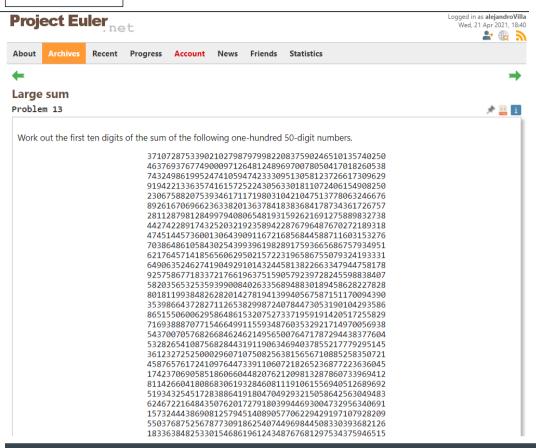
10: 1,2,5,10 15: 1,3,5,15 21: 1,3,7,21

28: 1,2,4,7,14,28

We can see that 28 is the first triangle number to have over five divisors.

What is the value of the first triangle number to have over five hundred divisors?

Answer: **76576500** Completed on Wed, 21 Apr 2021, 00:32



> Answer: **5537376230** Completed on Wed, 21 Apr 2021, 01:50

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Longest Collatz sequence

Problem 14

The following iterative sequence is defined for the set of positive integers:

$$n \rightarrow n/2$$
 (n is even)

 $n \rightarrow 3n + 1$ (n is odd)

Using the rule above and starting with 13, we generate the following sequence:

$$13 \rightarrow 40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

It can be seen that this sequence (starting at 13 and finishing at 1) contains 10 terms. Although it has not been proved yet (Collatz Problem), it is thought that all starting numbers finish at 1.

Which starting number, under one million, produces the longest chain?

NOTE: Once the chain starts the terms are allowed to go above one million.

Answer: 837799

Completed on Wed, 21 Apr 2021, 16:03

Go to the thread for problem 14 in the forum. Download overview for problem 14.

Problema 15

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Problem 15

Starting in the top left corner of a 2×2 grid, and only being able to move to the right and down, there are exactly 6 routes to the bottom right corner.





How many such routes are there through a 20×20 grid?

Answer: 137846528820 Completed on Wed, 21 Apr 2021, 17:29

Go to the thread for problem 15 in the forum. Download overview for problem 15.