



Decode the Future: Join the Epic Hackathon Quest!

Part 1

Solve the following questions and the root of your answers is a code that you need to decipher to get this answer.

1. How many 1x1 squares are there on a chess board?
2. What is the value of i^4 ?
3. Until August 2006 how many planets were in our solar system?
4. Starting with the smallest prime number, what is the 12th number (not necessarily a prime number) that is the sum of three consecutive prime numbers?
5. By how many points did the Springboks beat New Zealand by in the Rugby World Cup final in 2023?
6. How many meters are there in a quarter mile, round to the nearest whole number?
7. How many days were there in 2023 up to and including the 5th of March?
8. What value does the binary code 11100001 represent?
9. What is the value of the roman number CXCVI?

Part 2

The following list contains two hundred numbers:

(1,6,2,2,5,0,8,4,4,5,9,8,2,2,6,7,0,9,5,7,3,9,9,3,0,2,9,8,4,1,5,4,9,4,2,1,5,4,2,1,4,2,4,3,3,3,0,4,1,1,0,2,1,2,9,0,1,4,27,1,1,7,8,6,5,5,4,2,1,3,4,10,3,7,8,1,5,5,5,1,1,6,1,9,1,5,1,9,1,2,1,3,6,6,4,6,2,3,4,2,1,5,9,7,3,1,0,7,1,9,2,6,7,4,3,4,3,2,8,6,4,8,8,3,9,8,4,1,6,0,2,1,1,1,1,4,3,3,2,4,9,4,9,1,2,1,5,0,5,0,7,0,8,3,0,3,0,0,6,5,7,0,0,6,1,8,6,9,2,0,9,0,7,0,9,4,5,3,5,6,1,2,7,1,6,2,4,2,3,0,1,3,0,2,2,1,7,3,5,5,7,3,7,1,3,2,1,1,3,3,0,2,1,2,0,3,1,3,4,9,1,3,0,5,9,7,1,2,2,3,2,8,8,2,4,2,5,20,6,1,4,7,2,5,5,4,4,4,4,3,18,4,2,3,2,2,2,1,0,6,4,1,1,2,0,9,5,0,9,5,7,2,9,5,22,1,0,1,9,0,3,1,5,7,2,1,8,2,7,1,7,2,2,4,1,9,8,0,5,7,2,2,3,4,7,0,8,7,1,0,0,8,7,6,3,1,8,3,7,7,1,0,9,7,3,5,7,5,0,1,0,25,1,8,0,2,6,4,4,8,1,8,8,6,4,1,2,5,6,9,2,0,6,8,0,2,6,8,0,5,9,4,5,3,0,0,9,7,9,0,2,8,4,7,5,3,2,5,0,0,8,1,1,2,4,3,2,6,6,2,6,2,6,5,4,1,8,4,2,4,8,3,6,5,0,3,8,8,3,0,3,4,1,4,1,2,3,4,3,0,4,6,7,6,8,3,2,6,1,4,4,2,3,4,4,1,3,5,7,6,9,4,0,1,2,5,1,8,1,1,2,23,1,2,0,7,2,5,9,4,8,5,8,1,5,5,5,0,6,7,3,1,4,4,7,6,6,5,2,3,3,2,1,3,2,0,2,6,3,8,3,0,6,3,7,5,5,4,1,7,2,3,2,13,3,1,6,5,1,1,0,6,3,1,7,5,8,6,7,3,4,6,4,7,5,3,4,2,4,2,41,0,29,2,1,4,4,1,3,0,4,1,4,3,3,1,4,5,6,9,6,1,4,8,8,2,1,2,13,0,6,6,0,2,8,4,4,7,0,10,1,6,1,3,9,9,7,3,9,2,7,4,9,1,3,8,3,6,8,4,7,4,9,1,1,7,1,7,1,8,0,1,4,2,1,0,2,1,3,1,9,3,6,1,6,8,4,3,2,9,1,5,5,2,7,16,2,1,4,4,4,7,3,6,7,4,7,6,9,0,0,6,0,5,0,0,7,3,1,9,0,0,3,1,4,1,2,0,1,2,1,4,4,6,3,3,4,3,3,8,6,3,2,6,3,4,2,3,3,5,11,6,5,6,5,8,3,0,0,3,9,3,4,2,2,9,4,8,2,7,7,3,0,5,1,7,4,4,3,3,2,2,3,7,4,8,7,4,7,3,1,3,1,7,0,49,24,0,2,5,1,5,8,7,2,4,2,4,6,6,9,3,0,9,8,2,1,1,3,0,1,1,0,0,1,2,2,10,7,2,3,1,4,9,0,0,0,4,7,5,8,7,0,2,8,0,8,7,5,7,2,7,2,29,4,3,2,1,2,2,4,1,6,1,5,8,9,2,6,4,4,6,0,8,4,6,0,4,1,0,3,3,0,2,4,11,23,1,3,3,3,0,3,0,5,3,3,4,3,0,2,7,7,0,3,0,4,6,3,0,4,0,2,3,7,1,1,1,1,1,4,1,4,3,1,3,48,0,4,5,5,6,9,0,2,2,2,2,6,3,6,6,4,0,8,4,3,5,4,3,3,2,2,3,3,4,4,0,1,1,4,4,3,2,6,8,5,2,9,7,0,5,2,1,2,0,4,6,4,7,0,6,4,4,2,1,1,8,2,1,0,9,1,0,14,0,0,3,4,4,0,1,3,2,2,3,9,8,7,3,7,4,4,4,1,2,1,35,1,13,0,6,2,6,1,8,1,7,1,4,8,0,1,1,25,2,3,4,5,8,4,4,2,1,2,3,2,0,8,1,25,6,2,3,1,3,0,6,5,3,1,47,2,9,0)

The largest product of any two consecutive numbers is 1176.
 What is the largest number when the product of any 4 Consecutive numbers is taken?
 Divide this number by 100.

