

Interesting Facts :

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6. **Goldbach's conjecture**: Every even integer greater than 2 can be expressed as the sum of 2 primes.
7. **Perfect numbers or Amicable numbers**: Perfect numbers are those numbers which are equal to the sum of their proper divisors. Example: $6 = 1 + 2 + 3$
8. **Lychrel numbers**: Are those numbers that cannot form a palindrome when repeatedly reversed and added to itself. For example 47 is not a Lychrel Number as $47 + 74 = 121$
9. **Lemoine's Conjecture** : Any odd integer greater than 5 can be expressed as a sum of an odd prime (all primes other than 2 are odd) and an even semiprime. A semiprime number is a product of two prime numbers. This is called Lemoine's conjecture.
10. **Fermat's Last Theorem** : According to the theorem, no three positive integers a, b, c satisfy the equation, $a^n + b^n = c^n$ for any integer value of n greater than 2. For n = 1 and n = 2, the equation have infinitely many solutions.

Number Theory Algorithms

GCD and LCM

1. GCD and LCM
2. LCM of array
3. GCD of array
4. Basic and Extended Euclidean algorithms

Recent Articles on GCD and LCM!

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Prime Factorization and Divisors :

1. Prime factors
2. Pollard's Rho Algorithm for Prime Factorization
3. Find all divisors of a natural number
4. Sum of all proper divisors of a natural number
5. Prime Factorization using Sieve $O(\log n)$ for multiple queries
6. Find politeness of a number
7. Print prime numbers in a given range using C++ STL
8. k-th prime factor of a given number
9. Smith Numbers

Recent Articles on Prime Factors!

Fibonacci Numbers:

1. Fibonacci Numbers
2. Interesting facts about Fibonacci numbers