

Topics:

- 1) Divisors $O(n)$
- 2) Finding all the divisors of a number(\sqrt{n}) -
- 3) Primes & co-primes
- 4) Euclid Lemma
- 5) Primality Test (\sqrt{n}) - [cp-algorithm](#)
- 6) Prime Factorizations
- 7) Smallest Prime Factor
- 8) No. of Divisors using prime factorizations
- 9) Upper bound of No of divisors -
<https://forthright48.com/upper-bound-for-number-of-divisors> 14
- 10) Sum of divisors
- 11) Sieve of Eratosthenes
- 12) Divisor count of all the numbers from 1 to n $O(n \log \log(n))$
- 13) GCD
- 14) LCM
- 15) Euclid's Algorithm
- 16) Binary Exponentiations