

*Prinality Tree Of Any Given Set*

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## Abstract

In this research investigation, the author has presented a Novel Scheme to construct the '*Primality Tree Of Any Given Set*'.

## Theory

### Case 1:

Given any *Set*, we write each element of it as a *Product* of the *Lowest Possible Prime Number* and *Some Other Number* (may be even *Prime*). We now arrange all the elements of the *Given Set* into *Various Sets* in a fashion such that these sets respectively belong to

$$S_i = i * \{\text{Sequence Of Primes}\}$$

where  $*$  is the *Multiplication Operator*

for  $i = 1, 2, 3, 4, 5, 6, \dots$ , for the given *Set* to be Slated in the above described fashion.

Now, each of the *Set*  $S_i$  forms a *Stem*, i.e.,  $i^{\text{th}}$  *Stem* of the *Primality Tree*. The *Union* of all *Stems* forms the *Primality Tree*.

### Case 2:

Given any *Set*, we write each element of it as a *Product* of the *Highest Possible Prime Number* and *Some Other Number* (may be even *Prime*). We now arrange all the elements of the *Given Set* into *Various Sets* in a fashion such that these sets respectively belong to

$$S_i = i * \{\text{Sequence Of Primes}\}$$

where  $*$  is the *Multiplication Operator*

for  $i = 1, 2, 3, 4, 5, 6, \dots$ , for the given *Set* to be Slated in the above described fashion.

Now, each of the Set  $S_i$  forms a *Stem*, i.e.,  $i^{\text{th}}$  *Stem* of the *Primality Tree*. The *Union* of all *Stems* forms the *Primality Tree*.

### **Moral**

*Life Finds Its Way Out.*

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1. **One, Two, Three and N Dimensional String Search Algorithms**

Ramesh C. Bagadi

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## ***Dedication***

*All of the aforementioned Research Works, inclusive of this One are **Dedicated to Lord Shiva.***