February 22nd 2016 Anno Domini

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White Paper One \{TRL118\}
of
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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

\[ S_i = i \ast \{\text{Sequence Of Primes}\} \]

where \( \ast \) is the Multiplication Operator

for \( i = 1,2,3,4,5,6, \ldots \), 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

\[ S_i = i \ast \{\text{Sequence Of Primes}\} \]

where \( \ast \) is the Multiplication Operator

for \( i = 1,2,3,4,5,6, \ldots \), for the given Set to be Slated in the above described fashion.
Now, each of the Set $S_i$ forms a Stem, i.e., $i^{th}$ Stem of the Primality Tree. The Union of all Stems forms the Primality Tree.

Moral

*Life Finds Its Way Out.*

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Acknowledgements

The author would like to express his deepest gratitude to all the members of his loving family, respectable teachers, en-dear-able friends, inspiring Social Figures, highly esteemed Professors, reverence deserving Deities that have deeply contributed in the formation of the necessary scientific temperament and the social and personal outlook of the author that has resulted in the conception, preparation and authoring of this research manuscript document.
Tribute

The author pays his sincere tribute to all those dedicated and sincere folk of academia, industry and elsewhere who have sacrificed a lot of their structured leisure time and have painstakingly authored treatises on Science, Engineering, Mathematics, Art and Philosophy covering all the developments from time immemorial until then, in their supreme works. It is standing on such treasure of foundation of knowledge, aided with an iota of personal god-gifted creativity that the author bases his foray of wild excursions into the understanding of natural phenomenon and forms new premises and scientifically surmises plausible laws. The author strongly reiterates his sense of gratitude and infinite indebtedness to all such ‘Philosophical Statesmen’ that are evergreen personal librarians of Science, Art, Mathematics and Philosophy.

Dedication

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