

*Universal Sequence Of Primes*

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## Abstract

In this research investigation, the author has presented a ‘*Universal Sequence Of Primes Finding Algorithm*’.

## Theory

Firstly, we consider a Set containing two known consecutive Primes starting from the beginning, namely, 2 and 3.

$$S_1 = \{2, 3\}$$

We now consider the Set formed by considering the ascending order arrangement of the elements of  $S_1 = \{2, 3\}$

$$S_{1A} = \{2, 3\}$$

We now consider  $S_{1A} = \{2, 3\}$  and implement the following Scheme

$\{2, 3\}$  which can be written as

$\{x, x+1\}$  we now normalize this set in the following fashion

$\left\{x, x + \frac{1}{x}\right\}$  which we re-write as

$\{x^2, x^2 + 1\}$  where, we have omitted the denominator.

We now substitute the value of  $x = 2$  and get

$$S_{1A \text{ POSSIBLE PRIMES MAP}} = \{4, 5\}$$

Since, the first element is a Squared number as can be observed, we can note that the second element of  $S_{1A \text{ POSSIBLE PRIMES MAP}} = \{4, 5\}$  is Prime.

We now re-write the Primes Set in ascending order as  $S_2 = \{2, 3, 5\}$

We again consider all Two Element Sets of  $S_2 = \{2, 3, 5\}$  and arrange the elements in them in ascending order.

**These are**

$$S_{2A1} = \{2, 3\}$$

$$S_{2A2} = \{3, 5\}$$

$$S_{2A3} = \{2, 5\}$$

**When we implement the above Scheme in the box, we get**

$$S_{2A1} = \{2, 3\} \text{ gives Prime } 5$$

$$S_{2A2} = \{3, 5\} \text{ gives Prime } 11$$

$$S_{2A3} = \{2, 5\} \text{ gives Prime } 7$$

**We now re-write the Primes Set as  $S_3 = \{2, 3, 5, 7, 11\}$**

**We again consider all Two Element Sets of  $S_3 = \{2, 3, 5, 7, 11\}$  and arrange the elements in them in ascending order.**

**When we implement the above Scheme in the box on these sets, we get some more Primes.**

**We keep repeating this procedure till we find all the Primes up to a Desired Limit.**

***Note:* We can also consider this whole investigation considering the Descending Order case, but this gives Primes only occasionally\*.**

**(\* For more on this, see author)**

### **Relative Prime Metric**

**The author calls this above method of finding the third number given any two numbers as the method of Relative Prime Metric Of 2<sup>nd</sup> Order. Using this Scheme, one can find an entire Universe (of Sequence of Numbers) given any two numbers. Even if the given two numbers are not Prime, the Universe (of Sequence of Numbers) generated conforms to Relative Prime Metric.**

The Modification to the Scheme to employ method of Relative Prime Metric Of  $N^{\text{th}}$  Order is simply changing  $x + \frac{1}{x}$  to  $x + \frac{1}{x^{N-1}}$ . That is, the Standard Sequence of Primes found using this Scheme are Second Order Space Sequence Of Primes.

### **Moral**

*The Fear Of Our Lord Is The Beginning Of Wisdom.*

### **References**

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### ***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*

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### ***Dedication***

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