

*Constructing The Primality Tree Of Any Given Set*

*February 13<sup>th</sup>, 14<sup>th</sup> 2016 Anno Domini and before.*

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*White Paper One {TRL113}*

*of*

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## Abstract

In this research investigation the author presents a Scheme of ‘Constructing The Primality Tree Of Any Given Set’.

## Theory

Of Concern’.

## Theory

With respect to author’s ‘Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2<sup>nd</sup> Order Space)’ shown in the Blue Box Below,

**Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2<sup>nd</sup> Order Space)**

**Abstract**

In this research monograph, the author presents a novel ‘Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2<sup>nd</sup> Order Space)’.

**Theory**

One can note that we can represent any *Asymmetric Universal Recursion Scheme* as

$$\{x\} \leftrightarrow \{x-a\} \leftrightarrow \{x+b\}$$

One can simply *Normalize* it by simply doing the operation

$$\{x\} \leftrightarrow \left\{x - \left(\frac{a}{x}\right)\right\} \leftrightarrow \left\{x + \left(\frac{b}{x}\right)\right\}$$

i.e.,

$$\{x\} \leftrightarrow \left\{\frac{x^2 - a}{x}\right\} \leftrightarrow \left\{\frac{x^2 + b}{x}\right\}$$

Now, we consider the first three consecutive numbers starting from 0, i.e., {0, 1, 2} (that are supposed to indicate some (*Universal Recursion Scheme*)  $0 \leftrightarrow 1 \leftrightarrow 2$ ).

We now re-write all possible 6 arrangements of  $0 \leftrightarrow 1 \leftrightarrow 2$  namely:

<b>Universal Asymmetric Recursion Scheme</b>	<b>Normalized Universal Asymmetric Recursion Scheme</b>	<b>Values Of <math>x, a, b</math></b>	<b>Result</b>	<b>Finalized Pick From The Result</b>
	$\{x\} \leftrightarrow \left\{\frac{x^2 - a}{x}\right\} \leftrightarrow \left\{\frac{x^2 + b}{x}\right\}$			
$0 \leftrightarrow 1 \leftrightarrow 2$	$\{0\} \leftrightarrow \left\{\frac{(0)^2 - (-1)}{0}\right\} \leftrightarrow \left\{\frac{(0)^2 + 2}{0}\right\}$	$x = 0, a = -1, b = 2$	Undefined	
$1 \leftrightarrow 2 \leftrightarrow 0$	$\{1\} \leftrightarrow \left\{\frac{(1)^2 - (-1)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2 - 1}{1}\right\}$	$x = 1, a = -1, b = -1$	$1 \leftrightarrow 2 \leftrightarrow 0$	No New Prime Number To Select
$2 \leftrightarrow 0 \leftrightarrow 1$	$\{2\} \leftrightarrow \left\{\frac{(2)^2 - (2)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2 - 1}{2}\right\}$	$x = 2, a = 2, b = -1$	$4 \leftrightarrow 2 \leftrightarrow 3$	3 (Prime Number Nearest to 2)

$1 \leftrightarrow 0 \leftrightarrow 2$	$\{1\} \leftrightarrow \left\{ \frac{(1)^2 - (1)}{1} \right\} \leftrightarrow \left\{ \frac{(1)^2 + 1}{1} \right\}$	$x = 1, a = 1, b = 1$	$1 \leftrightarrow 0 \leftrightarrow 2$	No New Prime Number To Select
$0 \leftrightarrow 2 \leftrightarrow 1$	$\{0\} \leftrightarrow \left\{ \frac{(0)^2 - (-2)}{0} \right\} \leftrightarrow \left\{ \frac{(0)^2 + 1}{0} \right\}$	$x = 0, a = -2, b = 1$	Undefined	
$2 \leftrightarrow 1 \leftrightarrow 0$	$\{2\} \leftrightarrow \left\{ \frac{(2)^2 - 1}{2} \right\} \leftrightarrow \left\{ \frac{(2)^2 - 2}{2} \right\}$	$x = 2, a = 1, b = -2$	$4 \leftrightarrow 3 \leftrightarrow 1$	3 (Prime Number Nearest to 2)

Now, noting that the next nearest Prime Number found being 3, we now use the set  $\{0, 1, 2\}$  given in the beginning and use its two highest {Prime} numbers and couple the recently found 3 to form a new set  $\{1, 2, 3\}$  and consequently a *Asymmetric Universal Recursion Scheme*  $1 \leftrightarrow 2 \leftrightarrow 3$ . Using the same above scheme we again find a similar table for  $1 \leftrightarrow 2 \leftrightarrow 3$

<i>Universal Asymmetric Recursion Scheme</i>	<i>Normalized Universal Asymmetric Recursion Scheme</i>	<i>Values Of x, a, b</i>	<i>Result</i>	<i>Finalized Pick From The Result</i>
$\{x\} \leftrightarrow \left\{ \frac{x^2 - a}{x} \right\} \leftrightarrow \left\{ \frac{x^2 + b}{x} \right\}$				
$1 \leftrightarrow 2 \leftrightarrow 3$	$\{1\} \leftrightarrow \left\{ \frac{(1)^2 - (-1)}{1} \right\} \leftrightarrow \left\{ \frac{(1)^2 + 2}{1} \right\}$	$x = 0, a = -1, b = 2$	$1 \leftrightarrow 2 \leftrightarrow 3$	No New Prime Number To Select
$2 \leftrightarrow 3 \leftrightarrow 1$	$\{1\} \leftrightarrow \left\{ \frac{(2)^2 - (-1)}{2} \right\} \leftrightarrow \left\{ \frac{(2)^2 - 1}{2} \right\}$	$x = 1, a = -1, b = -1$	$2 \leftrightarrow 5 \leftrightarrow 3$	5 (Prime Number Nearest to 3)
$3 \leftrightarrow 1 \leftrightarrow 2$	$\{3\} \leftrightarrow \left\{ \frac{(3)^2 - (2)}{3} \right\} \leftrightarrow \left\{ \frac{(3)^2 - 1}{3} \right\}$	$x = 2, a = 2, b = -1$	$9 \leftrightarrow 7 \leftrightarrow 8$	7 (Prime Number greater than 5)
$2 \leftrightarrow 1 \leftrightarrow 3$	$\{2\} \leftrightarrow \left\{ \frac{(2)^2 - (1)}{2} \right\} \leftrightarrow \left\{ \frac{(2)^2 + 1}{2} \right\}$	$x = 1, a = 1, b = 1$	$4 \leftrightarrow 3 \leftrightarrow 5$	5 (Prime Number Nearest to 3)
$1 \leftrightarrow 3 \leftrightarrow 2$	$\{1\} \leftrightarrow \left\{ \frac{(1)^2 - (-2)}{1} \right\} \leftrightarrow \left\{ \frac{(1)^2 + 1}{1} \right\}$	$x = 0, a = -2, b = 1$	$1 \leftrightarrow 3 \leftrightarrow 2$	No New Prime Number To Select
$3 \leftrightarrow 2 \leftrightarrow 1$	$\{3\} \leftrightarrow \left\{ \frac{(3)^2 - 1}{3} \right\} \leftrightarrow \left\{ \frac{(3)^2 - 2}{3} \right\}$	$x = 2, a = 1, b = -2$	$4 \leftrightarrow 3 \leftrightarrow 1$	No New Prime Number To Select

Now, noting that the next nearest Prime number found being 5, we now use the set  $\{1, 2, 3\}$  given in the beginning and use its two highest {Prime} numbers and couple the recently found 5 to form a new set  $\{2, 3, 5\}$  and consequently a *Asymmetric Universal Recursion Scheme*  $2 \leftrightarrow 3 \leftrightarrow 5$ . Using the same above scheme we again find a similar table for  $2 \leftrightarrow 3 \leftrightarrow 5$

<i>Universal Asymmetric Recursion Scheme</i>	<i>Normalized Universal Asymmetric Recursion Scheme</i>	<i>Values Of x, a, b</i>	<i>Result</i>	<i>Finalized Pick From The Result</i>
$\{x\} \leftrightarrow \left\{ \frac{x^2 - a}{x} \right\} \leftrightarrow \left\{ \frac{x^2 + b}{x} \right\}$				

$2 \leftrightarrow 3 \leftrightarrow 5$	$\{2\} \leftrightarrow \left\{ \frac{(2)^2 - (-1)}{2} \right\} \leftrightarrow \left\{ \frac{(2)^2 + 2}{2} \right\}$	$x = 0, a = -1, b = 3$	$4 \leftrightarrow 5 \leftrightarrow 7$	<b>7</b> (Prime Number Nearest to 5)
$3 \leftrightarrow 5 \leftrightarrow 2$	$\{3\} \leftrightarrow \left\{ \frac{(3)^2 - (-2)}{3} \right\} \leftrightarrow \left\{ \frac{(3)^2 - 1}{3} \right\}$	$x = 1, a = -2, b = -1$	$9 \leftrightarrow 11 \leftrightarrow 8$	<b>11</b> (Prime Number greater than 7)
$5 \leftrightarrow 2 \leftrightarrow 3$	$\{5\} \leftrightarrow \left\{ \frac{(5)^2 - (3)}{5} \right\} \leftrightarrow \left\{ \frac{(5)^2 - 2}{5} \right\}$	$x = 2, a = 3, b = -2$	$25 \leftrightarrow 22 \leftrightarrow 23$	<b>23</b> (Prime Number greater than 7)
$3 \leftrightarrow 2 \leftrightarrow 5$	$\{3\} \leftrightarrow \left\{ \frac{(3)^2 - (1)}{3} \right\} \leftrightarrow \left\{ \frac{(3)^2 + 2}{3} \right\}$	$x = 1, a = 1, b = 2$	$9 \leftrightarrow 8 \leftrightarrow 11$	<b>11</b> (Prime Number greater than 7)
$2 \leftrightarrow 5 \leftrightarrow 3$	$\{2\} \leftrightarrow \left\{ \frac{(2)^2 - (-3)}{2} \right\} \leftrightarrow \left\{ \frac{(2)^2 + 1}{2} \right\}$	$x = 0, a = -3, b = 1$	$4 \leftrightarrow 7 \leftrightarrow 5$	<b>7</b> (Prime Number Nearest to 5)
$5 \leftrightarrow 3 \leftrightarrow 2$	$\{5\} \leftrightarrow \left\{ \frac{(5)^2 - 2}{5} \right\} \leftrightarrow \left\{ \frac{(5)^2 - 3}{5} \right\}$	$x = 2, a = 2, b = -3$	$25 \leftrightarrow 23 \leftrightarrow 22$	<b>23</b> (Prime Number greater than 7)

Now, noting that the next nearest Prime number found being 7, we now use the set  $\{2, 3, 5\}$  given in the beginning and use its two highest *{Prime}* numbers and couple the recently found 7 to form a new set  $\{3, 5, 7\}$  and consequently a *Asymmetric Universal Recursion Scheme*  $3 \leftrightarrow 5 \leftrightarrow 7$ . Using the same above scheme we again find a similar table for  $3 \leftrightarrow 5 \leftrightarrow 7$  and can consequently find the next Prime Number to be 11.

We can keep repeating the aforementioned scheme many, many times so on, so forth and can generate the entire '*SequenceOfPrimeNumbers*' up to a desired limit.

the author replaces, the set  $\{0,1,2\}$  by the *Given Sequence Of Triplet Not Containing Zero And Arranged In Ascending Order*, say  $\{\alpha_1, \alpha_2, \alpha_3\}$  and considers the cases of

$$\alpha_2 \leftrightarrow \alpha_1 \leftrightarrow \alpha_3$$

and

$$\alpha_2 \leftrightarrow \alpha_3 \leftrightarrow \alpha_1$$

and use the above Scheme to find  $\alpha_4$ .

which will be *Nearest Common Outcome* of the above considered cases when the author's above mentioned Scheme is implemented on each. In a similar fashion,

we can keep generating  $\alpha_5, \alpha_6, \dots, \alpha_{(n-1)}, \alpha_n$  by considering  $\{\alpha_{i-1}, \alpha_i, \alpha_{i+1}\}$  and considering the cases

$$\alpha_i \leftrightarrow \alpha_{i-1} \leftrightarrow \alpha_{i+1}$$

and

$$\alpha_i \leftrightarrow \alpha_{i+1} \leftrightarrow \alpha_{i-1}$$

and use the above Scheme to find  $\alpha_{i+2}$ .

which will be *Nearest Common Outcome* of the above considered cases  $\alpha_i \leftrightarrow \alpha_{i-1} \leftrightarrow \alpha_{i+1}$  and  $\alpha_i \leftrightarrow \alpha_{i+1} \leftrightarrow \alpha_{i-1}$  when the author's above mentioned Scheme is implemented on each, for any  $1 \leq i \leq n$  for the Elements on the Higher Side of  $\alpha_1$

Here the Limit, we have considered is  $1 \leq i \leq n$

for the Elements on the Higher Side of  $\alpha_1$

The thusly found Elements, Conform to the Restriction of Belonging to a Complete Recursive Set, on the Higher Side with Limit  $1 \leq i \leq n$  and Starting from  $\alpha_1$ .

To compute the that conform to the Restriction of Belonging to a Complete Recursive Set, on the Lower Side (upto a certain Limit) and Starting from  $\alpha_1$ , and going on the Lower Side, we use the following Scheme:

Firstly, we use the following Triplet of Numbers

$$\{\alpha_0, \alpha_1, \alpha_2\}$$

where,  $\alpha_0$  is a Variable and run our above Scheme in the Blue-Box and find  $\alpha_0$  for the Result of the Scheme being  $\alpha_3$  which is already known. In the same fashion, we keep finding the Complete Recursive Set Elements on the Lower Side of  $\alpha_1$  till a specified Limit, say  $\alpha_{-m}$ . Note that the minus Sign is just an

Indicator for numbering elements lower than  $\alpha_0$ . Here, the Lower Limit, we have considered is  $\alpha_{-m}$ , i.e.,  $-m$ .

Also,  $\alpha_{-m}$  is the Last Element on the Lower Side found to Exhaustion, i.e.,  $-m^{th}$  Element is the Last Element on the Lower Side found to Exhaustion.

*Complete Recursive Subsets Of the thusly found Elements* can also be found in the following fashion.

Firstly, we list all the thusly found Elements inclusive of the given three Elements  $\{\alpha_1, \alpha_2, \alpha_3\}$  and form a Set, say  ${}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}$ . Here, in the notation,  ${}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}$  indicates the Set of Elements that form a Complete Recursive Sub-Set formed for the Set  $\{\alpha_1, \alpha_2, \alpha_3\}$  with Lower Limit Term  $\alpha_{-m}$  and Higher Limit Term  $\alpha_n$ . We now find all the Subsets, say  $S_j \subset {}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}$  of this Set  ${}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}$ . Now for every Sub-Set of  ${}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}$  with at least three Elements or more, we use the aforementioned Scheme and find the Elements that Conform to Complete Recursive Sub-Set.

Now, the Union of all these Sets, namely  $\left\{ {}^{\alpha_n}CRS_{\{\alpha_1, \alpha_2, \alpha_3\}} \right\}_j \cup \left\{ {}^{Cardinality(\geq 3)}S_j \right\}$

can be considered as a Universal Beauty Primality Set and/ or Universal Optimal Life Primality Set.

***The Three Critical Elements Of Any Sequence That Can Generate All The Elements Of The Sequence And Also Some Additional Elements That Conform To The Complete Recursive Set Ordered By All The Elements Of The Given Sequence Of Concern***

Considering and given Sequence as a Set say,  $B = \{\beta_1, \beta_2, \beta_3, \dots, \beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}$  we, then holistically form all three Distinct Element Sets  $B_{Cardinality(3) \subset}$  using B. These will be  $p(p-1)(p-2) = (p^3 - 3p^2 + 2p)$  in number. Now, using the above detailed Scheme we find all the Elements forming a Complete Recursive Set for each of the Three Element Subsets of  $B = \{\beta_1, \beta_2, \beta_3, \dots, \beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}$ , on the

Higher and Lower Side and upto a Certain (different, may be same in some instances) Least Counts on the Higher & Lower Sides such that for one of this thusly found Set, we find all the Elements of the Given Sequence, in the least. The Three Element Subset of the given Sequence can be considered *as The Critical Three Elements Of Any Sequence That Can Generate All The Elements Of The Sequence And Also Some Additional Elements That Conform To The Complete Recursive Set Ordered {on the Higher and Lower Side and upto a Certain (different, may be same in some instances) Least Counts on the Higher & Lower Sides} By All The Elements Of The Given Sequence Of Concern.*

### ***Primality Tree Of Any Given Set***

1. Given any Set, we first find all possible sets of 3 Elements each of the given set.
2. For each of the set we use the above detailed scheme (Prime Numbers Finding Scheme) and find elements on the Higher side (just Higher than the Highest Element of the given Set) and Lower side (just Lower than the Lowest Element of the given Set).
3. Now we pick that particular 3 Element Set (remember, we found all possible sets of 3 Elements each of the given set) which maps most number of elements of the given set {when we use the above detailed scheme (Prime Numbers Finding Scheme) and find elements on the Higher side and Lower side}.
4. This 3 Element Set along with the elements that this 3 Element Set Mapped which also belong to the given Set forms the main Stem of the Primality Tree.
5. For the remaining elements (Given Set Elements minus the thusly found Main Stem Elements), we now form all possible 2 element pairs.
6. We again form all possible 3 Element Pairs using each element of the main stem and pairing it with each of the 2 element pair of all possible 2 element pairs formed above.
7. For each of these 3 Element pairs we find elements on the lower side.
8. We choose that particular stem as the second stem which maps the most number of remaining elements of the given set.

9. For the remaining elements (Given Set Elements minus main stem elements minus second stem Elements) we keep repeating\* the above procedure appropriately and find the other branches of the Primality Tree.

10. For this Primality Tree of the Given Set, we can also find the Complete Primality Tree.

\*Case 1: We repeat from Step 5 onwards

Instead of Main Stem, we consider Main stem and also all the latest found Stems for our analysis. (Hopefully this is correct choice !)

Case 2: We repeat from Step 5 onwards

Instead of the main stem, we consider the latest found Stem for our analysis.

**Moral**

*There Is A Season For Everything.*

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**{1} Universal Recursive Scale Shifting Technique {2} Universal Recursion Scheme That Is Vertically {Maximally} Evolving {10-3-105}-{6-2-15}-{14-5-385}**

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**REpresentation Of Alphabets By Prime Numbers - Primality Engineering - I**

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**Universal Aspect Recursion Scheme {Version 1 }**

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**Universal Recursive Algorithmic Scheme For The Generation Of Sequence Of Prime Numbers (Of 2nd Order Space)**

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**Recursion Scheme Of The Sequence Of Primes {Of Second (2nd) Order Space}**

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**The Synonymity Between The Five Elements Of (At) Planet Earth And The Five Digits Of Human Palm**

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**Genuinity Validation Of Any 'Original Work Consciousness Of Concern' And Decorrupting 'Corrupted Original Work Consciousness'**

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**The Prime Sequence's (Of Higher Order Space's) Generating Algorithm**

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1. 'Quantification Of The Criterion For Corrosion Onset'pp (1277-1284) Corrosion and Its Control: Proceedings of International Conference on Corrosion CORCON '97 A NACE International Conference, Nehru Centre, Mumbai, India, 3-6 December 1997, Elsevier Science Ltd Publishers, Vol. II, (1997) pp. 1067-1073, ISBN 13: **9780444829160**ISBN 10: 0444829164

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**Ramesh Chandra Bagadi**

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**Cornell University Library[arXiv.org](http://arxiv.org)>cs> arXiv:1009.3809v1**

**Computer Science > Data Structures and Algorithms**

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

Ramesh C. Bagadi

(Submitted on 20 Sep 2010 (this version))

### *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.***