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Author: Ramesh Chandra Bagadi
Founder, Owner, Co-Director And Advising Scientist In Principal
Ramesh Bagadi Consulting LLC, Madison, Wisconsin-53715, United States Of America.
Email: rameshcbagadi@uwalumni.com

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Abstract

In this research manuscript, the author has presented some ‘Insights On Universal Normalization Formula’.

Theory

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

<table>
<thead>
<tr>
<th>Universal Asymmetric Recursion Scheme</th>
<th>Normalized Universal Asymmetric Recursion Scheme</th>
<th>Values of x, a, b</th>
<th>Result</th>
<th>Finalized Pick From The Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ↔ 1 ↔ 2</td>
<td>{x} ↔ {x^2 - a} ↔ {x^2 + b} x }</td>
<td>x = 0, a = -1, b = 2</td>
<td>Undefined</td>
<td></td>
</tr>
<tr>
<td>1 ↔ 2 ↔ 0</td>
<td>{0} ↔ {0^2 - (-1)} ↔ {0^2 + 2} }</td>
<td>x = 1, a = -1, b = -1</td>
<td>1 ↔ 2 ↔ 0</td>
<td></td>
</tr>
<tr>
<td>2 ↔ 0 ↔ 1</td>
<td>{1} ↔ {(1)^2 - (2)} ↔ {(1)^2 - 2} }</td>
<td>x = 2, a = 2, b = -1</td>
<td>4 ↔ 2 ↔ 3</td>
<td></td>
</tr>
<tr>
<td>1 ↔ 0 ↔ 2</td>
<td>{1} ↔ {(1)^2 - (1)} ↔ {(1)^2 + 1} }</td>
<td>x = 1, a = 1, b = 1</td>
<td>1 ↔ 0 ↔ 2</td>
<td></td>
</tr>
</tbody>
</table>
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 \((\text{Prime})\) 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

<table>
<thead>
<tr>
<th>Universal Asymmetric Recursion Scheme</th>
<th>Normalized Universal Asymmetric Recursion Scheme</th>
<th>Values Of ( x, a, b )</th>
<th>Result</th>
<th>Finalized Pick From The Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ( \leftrightarrow ) 2 ( \leftrightarrow ) 1</td>
<td>( {0} \leftrightarrow \frac{(0)^2 - (-2)}{0} \leftrightarrow \frac{(0)^2 + 1}{0} )</td>
<td>( x = 0, a = -2, b = 1 )</td>
<td>Undefined</td>
<td></td>
</tr>
<tr>
<td>2 ( \leftrightarrow ) 1 ( \leftrightarrow ) 0</td>
<td>( {2} \leftrightarrow \frac{(2)^2 - 1}{2} \leftrightarrow \frac{(2)^2 - 2}{2} )</td>
<td>( x = 2, a = 1, b = -2 )</td>
<td>4 ( \leftrightarrow ) 3 ( \leftrightarrow ) 1</td>
<td>( ^3 ) ( \text{(Prime Number Nearest to 2)} )</td>
</tr>
</tbody>
</table>

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 \((\text{Prime})\) 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

<table>
<thead>
<tr>
<th>Universal Asymmetric Recursion Scheme</th>
<th>Normalized Universal Asymmetric Recursion Scheme</th>
<th>Values Of ( x, a, b )</th>
<th>Result</th>
<th>Finalized Pick From The Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ( \leftrightarrow ) 3 ( \leftrightarrow ) 5</td>
<td>( {2} \leftrightarrow \frac{(2)^2 - (-1)}{2} \leftrightarrow \frac{(2)^2 + 2}{2} )</td>
<td>( x = 0, a = -1, b = 3 )</td>
<td>4 ( \leftrightarrow ) 5 ( \leftrightarrow ) 7</td>
<td>( ^7 ) ( \text{(Prime Number Nearest to 5)} )</td>
</tr>
</tbody>
</table>
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*. 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 ‘Sequence Of Prime Numbers’ 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 \(\alpha_5, \alpha_6, \ldots, \alpha_{(n-1)}, \alpha_n\) 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 \textit{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., \( -m^h \) 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 \(\alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}}\). Here, in the notation, \(\alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}}\) 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 \(S_j \subseteq \alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}}\) of this Set \(\alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}}\). Now for every Sub-Set of \(\alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}}\) 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 \(\bigcup_{j} \left\{ \alpha_m^{CRS_{\{\alpha_1, \alpha_2, \alpha_3\}}} \right\} \bigcup_{j} \left\{ \text{Cardinality(\geq3)} S_j \right\}\) 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, \(B = \{\beta_1, \beta_2, \beta_3, \ldots, \beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}\) we, then holistically form all three Distinct Element Sets \(B_{\text{Cardinality(3)}}\) 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 \(B = \{\beta_1, \beta_2, \beta_3, \ldots, \beta_{(p-2)}, \beta_{(p-1)}, \beta_p\}\), 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.

Note Of Caution \{Speculation\}

One should note that the above detailed Scheme in the Blue-Box may only work well when the three Elements used for such generation all belong to the same Sequence Of Primes of Certain Order Space. When the three elements each belong to different Sequences of Primes each of different Order Space, the process in the Blue Box needs to be modified in the following fashion.

Firstly, we consider the Corresponding Prime Metric Position Elements of three Consecutive Order Space(s) Sequences of Primes and use the Scheme in the Blue-Box modified in the following fashion

Case 1:

\[
\left\{ \begin{array}{l}
D X \\
\end{array} \right\} \leftrightarrow \left\{ \begin{array}{l}
D X - E a^{(R_{l-1})} \\
D X + F b^{(R_{l-1})} \\
\end{array} \right\} \quad D > E, F
\]

\(D X\) belongs to the Sequence Of Primes Of \(D^{th}\) Order Space

\(E a\) belongs to the Sequence Of Primes Of \(E^{th}\) Order Space

\(F b\) belongs to the Sequence Of Primes Of \(F^{th}\) Order Space

And since, we know the Next Element generated which will be the Corresponding Prime Metric Element of the Order Space Sequence Of Primes Next to the (Corresponding Prime Metric Position Elements of the) above considered three Consecutive Order Space(s) Sequences of Primes, using the answers, and using a Similar Procedure of using the Known elements on the Lower and Higher Side we evaluate the Exponents

\(R_1\) and \(R_2\).

We similarly, conduct the same procedure for the other possible cases listed below.
Case 2:

\[
\{D_x\} \leftrightarrow \left\{ D_x - \frac{E a}{(D_x)^{S_1}} \right\} \leftrightarrow \left\{ D_x + \frac{F b^{(R_2-1)}}{(D_x)^{S_2-1}} \right\} \quad (D < E), (D > F)
\]

- \(D_x\) belongs to the Sequence Of Primes Of \(D^\text{th}\) Order Space
- \(E a\) belongs to the Sequence Of Primes Of \(E^\text{th}\) Order Space
- \(F b\) belongs to the Sequence Of Primes Of \(F^\text{th}\) Order Space

Case 3:

\[
\{D_x\} \leftrightarrow \left\{ D_x - \frac{E a}{(D_x)^{S_1}} \right\} \leftrightarrow \left\{ D_x + \frac{F b}{(D_x)^{S_2-1}} \right\} \quad D < E, F
\]

- \(D_x\) belongs to the Sequence Of Primes Of \(D^\text{th}\) Order Space
- \(E a\) belongs to the Sequence Of Primes Of \(E^\text{th}\) Order Space
- \(F b\) belongs to the Sequence Of Primes Of \(F^\text{th}\) Order Space

Case 4:

\[
\{D_x\} \leftrightarrow \left\{ D_x - \frac{E a^{(R_1-1)}}{D_x} \right\} \leftrightarrow \left\{ D_x + \frac{F b}{(D_x)^{S_2-1}} \right\} \quad (D > E), (D < F)
\]

- \(D_x\) belongs to the Sequence Of Primes Of \(D^\text{th}\) Order Space
- \(E a\) belongs to the Sequence Of Primes Of \(E^\text{th}\) Order Space
- \(F b\) belongs to the Sequence Of Primes Of \(F^\text{th}\) Order Space

And similarly, we find \(S_1\) and \(S_2\).

We also conduct the same procedure using Corresponding Prime Metric Position Elements of three Non-Consecutive Order Space(s) Sequences of Primes and can create a Universal Normalization Formula that validates the Modified Blue-Box Scheme when we are working with Elements that belong to Any Order Space Sequence Of Primes for our aforementioned type Analysis.
Conclusion

One can note that using the above Scheme one can create a *Universal Normalization Formula* that validates the Modified Blue-Box Scheme when we are working with Elements that belong to Any Order Space Sequence Of Primes for our aforementioned type Analysis.

Moral

*Fulfillment Of Good Promise Is A Good Virtue.*

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Category: General Mathematics


Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)
Authors: Ramesh Chandra Bagadi
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All You Need to Know About Euclidean and Euclidean Type Inner Product Scheme
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Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness
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Universal One Step Natural Evolution And/ Or Growth Scheme Of Any Set Of Concern And Consequential Evolution Quantization Based Recursion Scheme Characteristically Representing Such Aforementioned Evolution And/ Or Growth
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Universal Natural Recursion Schemes Of Rth Order Space
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The Prime Sequence’s (Of Higher Order Space’s) Generating Algorithm
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Ramesh Chandra Bagadi

OTHER PUBLICATIONS

1. ‘Quantification Of The Criterion For Corrosion Onset’ pp (1277-1284)
2. ‘Corrosion Of Galvanized Reinforcement Bars Due To An Electrothermodynamic Parameter: Pyroelectricity’ pp (238-242)

Ramesh Chandra Bagadi

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Computer Science > Data Structures and Algorithms

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.