Universal Scheme To Find The Recursion Scheme Of Any Set Of Concern

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Abstract

In this research manuscript, the author has detailed a Scheme to find the '*Recursion Scheme Of Any Set Of Concern*'.

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,

Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2nd Order Space)

Abstract

In this research monograph, the author presents a novel '*Universal Recursive Scheme For Generating The Sequence Of Prime Numbers (Of 2nd 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:

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** x, a, b	***Result***	***Finalized Pick From The Result***
$0 \leftrightarrow 1 \leftrightarrow 2$	$\{0\} \leftrightarrow \left\{\frac{(0)^2-(-1)}{0}\right\} \leftrightarrow \left\{\frac{(0)^2+2}{0}\right\}$	$x=0,\ a=-1,\ b=2$	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 *PrimeNumber* 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 $1 \leftrightarrow 2 \leftrightarrow 3$

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** $x,\ a,\ b$	***Result***	***Finalized Pick From The Result***
$1 \leftrightarrow 2 \leftrightarrow 3$	$\{1\} \leftrightarrow \left\{\frac{(1)^2-(-1)}{1}\right\} \leftrightarrow \left\{\frac{(1)^2+2}{1}\right\}$	$x=0,\ a=-1,\ b=2$	$1 \leftrightarrow 2 \leftrightarrow 3$	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 $2 \leftrightarrow 3 \leftrightarrow 5$

Universal Asymmetric Recursion Scheme	***NormalizedUniversal Asymmetric Recursion Scheme*** $\{x\} \leftrightarrow \left\{\frac{x^2-a}{x}\right\} \leftrightarrow \left\{\frac{x^2+b}{x}\right\}$	***Values Of*** $x,\ a,\ b$	***Result***	***Finalized Pick From The Result***
$2 \leftrightarrow 3 \leftrightarrow 5$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(-1)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2+2}{2}\right\}$	$x=0,\ a=-1,\ b=3$	$4 \leftrightarrow 5 \leftrightarrow 7$	***7*** (Prime Number Nearest to 5)

$3 \leftrightarrow 5 \leftrightarrow 2$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-(-2)}{3}\right\} \leftrightarrow \left\{\frac{(3)^2-1}{3}\right\}$	$x=1,\ a=-2,\ b=-1$	$9 \leftrightarrow 11 \leftrightarrow 8$	***11*** (Prime Number greater than 7)
$5 \leftrightarrow 2 \leftrightarrow 3$	$\{5\} \leftrightarrow \left\{\frac{(5)^2-(3)}{5}\right\} \leftrightarrow \left\{\frac{(5)^2-2}{5}\right\}$	$x=2,\ a=3,\ b=-2$	$25 \leftrightarrow 22 \leftrightarrow 23$	***23*** (Prime Number greater than 7)
$3 \leftrightarrow 2 \leftrightarrow 5$	$\{3\} \leftrightarrow \left\{\frac{(3)^2-(1)}{3}\right\} \leftrightarrow \left\{\frac{(3)^2+2}{3}\right\}$	$x=1,\ a=1,\ b=2$	$9 \leftrightarrow 8 \leftrightarrow 11$	***11*** (Prime Number greater than 7)
$2 \leftrightarrow 5 \leftrightarrow 3$	$\{2\} \leftrightarrow \left\{\frac{(2)^2-(-3)}{2}\right\} \leftrightarrow \left\{\frac{(2)^2+1}{2}\right\}$	$x=0,\ a=-3,\ b=1$	$4 \leftrightarrow 7 \leftrightarrow 5$	***7*** (Prime Number Nearest to 5)
$5 \leftrightarrow 3 \leftrightarrow 2$	$\{5\} \leftrightarrow \left\{\frac{(5)^2-2}{5}\right\} \leftrightarrow \left\{\frac{(5)^2-3}{5}\right\}$	$x=2,\ a=2,\ b=-3$	$25 \leftrightarrow 23 \leftrightarrow 22$	***23*** (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 ZeroAnd 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 α_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 α_5, α_6, ..., $\alpha_{(n-1)}$, α_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 α_{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 $1 \le i \le n$.

We now consider a Given Sequence, say
$\{\beta_1, \beta_2, \beta_3, \beta_4, \beta_5, ..., \beta_{m-1}, \beta_m\}$
Considering $\{\beta_1, \beta_2, \beta_3\}$, using the above Scheme and find β_4'.
We also note the ratio $\dfrac{\beta_4}{\beta_4'} = k_1$
Considering $\{\beta_2, \beta_3, \beta_4\}$, using the above Scheme and find β_5'.
We also note the ratio $\dfrac{\beta_5}{\beta_5'} = k_2$
Similarly,
Considering $\{\beta_{m-3}, \beta_{m-2}, \beta_{m-1}\}$, using the above Scheme and find β_m'.
We also note the ratio $\dfrac{\beta_m}{\beta_m'} = k_{m-3}$
Now, the Set $\{k_1, k_2, k_3, k_4, k_5, ..., k_{m-4}, \beta_{m-3}\}$
Characterizes the Evolution Set of the given Sequence $\{\beta_1, \beta_2, \beta_3, \beta_4, \beta_5, ..., \beta_{m-1}, \beta_m\}$. This Evolution Set is with Respect to the Evolution Set of the Sequence of Prime Numbers.
We now again Compute the Evolution Set of the thusly computed Evolution Set $\{k_1, k_2, k_3, k_4, k_5, ..., k_{m-4}, \beta_{m-3}\}$. We again keep computing the Evolution Set of this new Evolution Set, and so on so forth, till we reach an Evolution Set that has only three elements. This *Three Element Set* can be called as the *Recursion Scheme* of the originally given Set
$\{\beta_1, \beta_2, \beta_3, \beta_4, \beta_5, ..., \beta_{m-1}, \beta_m\}$.

Using this thusly computed *Three Element Set*, One can follow the *Reverse* (*Inverse*) *Procedure* stated in the Yellow Box above and can *Generate* the *Whole Set* From Its *Three Element Set Recursion Scheme*.

Conclusion

One can note that using this Scheme one can Scale any Local Infinity. Also, using the Evolution Function, one can Optimize any Sequence of concern. Also, One can Find The Element Set Recursion Scheme Of Any Set of concern. Also, conversely, one can Generate the Entire Given Set from the Sets' Three Element Recursion Scheme.

Moral

Fulfillment Of Promise Is Character And Character Forms Our Life Story.

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Ramesh C. Bagadi
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Dedication

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