Generation Of Elements Forming A Complete Recursive Set On The Higher Side {Up To A Specified Limit} Of A Three Distinct Element Set {Not Containing Zero} Arranged In Ascending Order

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Abstract

In this research manuscript, the author has detailed a Scheme for '*Generation Of Elements Forming A Complete Recursive Set On The Higher Side {Up To A Specified Limit} Of A Three Distinct Element Set Arranged In Ascending Order*'.

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 $1 \le i \le n$.

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

The thusly found Elements, Conform to the *Restriction* of *Belonging* to a *Complete Recursive Set*, {see author's '*Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)*' in the References below} on the Higher Side with Limit $1 \le i \le n$ but not on the Lower Side and Starting from α_1.

Conclusion

Elements, One can note that one can Generate Elements from a Distinct Three Element Set (Arranged In Ascending Order) that Conform to the Restriction of Belonging to a Complete Recursive Set, on the Higher Side with Limit $1 \le i \le n$ but not on the Lower Side and Starting from α_1.

Moral

Fulfillment Of Good Promise Is A Virtue.

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

Ramesh C. Bagadi

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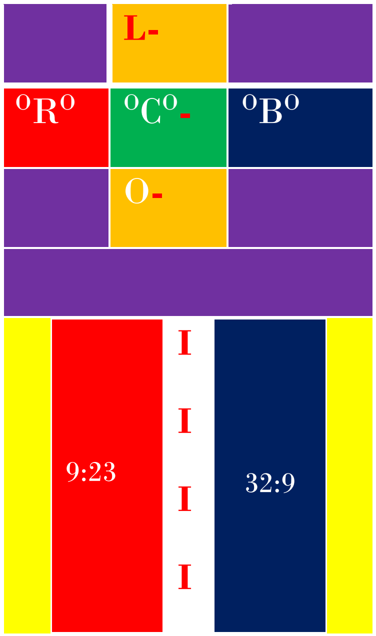
Dedication

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