Universal Sequence Of Primes Finding Algorithm {Version I}

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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 three known consecutive Primes starting from the beginning, namely 1, 2 and 3 (we consider 1 as Prime),

$S_1 = \{1, 2, 3\}$

We now write all possible arrangements of the elements of the set $S_1 = \{1, 2, 3\}$ as different Sets

$S_{11} = \{1, 2, 3\}$
$S_{12} = \{1, 3, 2\}$
$S_{13} = \{2, 3, 1\}$
$S_{14} = \{2, 1, 3\}$
$S_{15} = \{3, 1, 2\}$
$S_{16} = \{3, 2, 1\}$

We now consider $S_{13} = \{2, 3, 1\}$ and implement the following Scheme

$\{2, 3,1\}$ which can be written as

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

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

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

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

$S_{13\ POSSIBLE\ PRIMES\ MAP} = \{4, 5, 3\}$

Using author's Primeness Test & Primeness Test {Version 5}, we find which among the $S_{13\ POSSIBLE\ PRIMES\ MAP} = \{4, 5, 3\}$ are Prime.

We now consider each of the other 5 Sets i.e.,

$S_{11} = \{1, 2, 3\}$
$S_{12} = \{1, 3, 2\}$
$S_{14} = \{2, 1, 3\}$
$S_{15} = \{3, 1, 2\}$
$S_{16} = \{3, 2, 1\}$

and repeat the same procedure and possibly find any more primes. This gives us the new primes 5 and 7.

We now extend our Set by including these newly found Primes 5 and 7 and call it $S_2 = \{1, 2, 3, 5, 7\}$

We now consider all possible 3 element subsets of S_2, say $S_{2\ SUBSET\ i}$, (i going from 1 to 10). These are $C(5, 3)$ in number, (the number of ways of Selecting a group of 3 numbers among 5 numbers), i.e., 10 in number.

For each of these 10 Sub-Sets, we now write all possible arrangements of the elements in it and repeat the above detailed procedure to find more primes.

We now, again include these newly found primes to $S_2 = \{1, 2, 3, 5, 7\}$ and call it $S_3 = \{1, 2, 3, 5, 7\}$ and repeat the same procedure to find more Primes.

We keep repeating this procedure till we find all the Primes upto a Desired Limit.

Moral

The Fear Of Our Lord Is The Beginning Of Wisdom.

References

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Dedication

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