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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

\( \left\{ x, \frac{x+1}{x}, \frac{x-1}{x} \right\} \) 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

\( S_{13 \text{ POSSIBLE PRIMES MAP}} = \{4, 5, 3\} \)

Using author’s Primeness Test & Primeness Test \{Version 5\}, we find which among the \( S_{13 \text{ POSSIBLE PRIMES MAP}} = \{4, 5, 3\} \) are Prime.
We now consider each of the other 5 Sets i.e.,

\[ S_{11} = \{1, 2, 3\} \]
\[ S_{12} = \{1, 3, 2\} \]
\[ S_{13} = \{2, 1, 3\} \]
\[ S_{14} = \{3, 1, 2\} \]
\[ S_{15} = \{3, 2, 1\} \]

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 \( S_{2\text{SUBSET}_i} \), (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**

**Ramesh Chandra Bagadi**

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Tribute

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Dedication

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