

# *Recursion Scheme Of Sequence Of Prime Numbers*

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## Abstract

In this research monograph, the author presents a novel Scheme to find the *Sequence Of Prime Numbers* (of Order Space 2).

## Theory

One can consider the first few elements of the *Sequence Of Prime Numbers (of Order Space 2)*, i.e.,

$$PS(2) = \{0, 1, 2, 3, 5, 7, 11, 13, 17, \dots\}$$

We again re-write them as follows considering in groups of three in such a fashion that in every next group the largest two elements of the previous group is present. That is, we can write them as

$$PS(2) = \{\{0, 1, 2\} \cup \{1, 2, 3\} \cup \{2, 3, 5\} \cup \{3, 5, 7\} \cup \{5, 7, 11\} \cup \{7, 11, 13\} \cup \{11, 13, 17\} \dots\}$$

Furthermore, one can write the same as

$$PS(2) = \{\{1, 2, 0\} \cup \{2, 3, 1\} \cup \{3, 5, 2\} \cup \{5, 7, 3\} \cup \{7, 11, 5\} \cup \{7, 11, 13\} \cup \{11, 13, 17\} \dots\}$$

We now consider four variables in the fashion

$$RSPS(2) = \{[(x-\alpha), (x+\beta), (x), \{x+(\alpha+\beta)\}]\}$$

Where RSPS(2) indicates the Recursion Scheme of Prime Sequence Of Order Space 2.

And we can note that the fourth variable in the above set is the newly found Prime Number  $p_i$ , which can be easily computed using the fourth variable of the set RSPS(2), once the nearest three primes  $\{p_{i-1}, p_{i-2}, p_{i-3}\}$  before it are arranged in the fashion  $\{p_{i-2}, p_{i-3}, p_{i-1}\}$  as shown above that represent the first three variables of the four variables of the set RSPS(2).

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