The Recursive Future Equation

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Abstract
In this research investigation, the author has presented a Recursive Future Equation.

Theory

Given a Time Series $Y = \{y_1, y_2, y_3, ..., y_{n-1}, y_n\}$

we can find $y_{n+1}$ using the following Recursive Equation.

$$y_{n+1} = \sum_{k=1}^{n} \left\{ \frac{\text{Smaller of } (y_{n+1}, y_k)}{\text{Larger of } (y_{n+1}, y_k)} \right\} \left\{ \sum_{i=1}^{n} y_k \right\}$$

From the above Recursive equation, we can solve for $y_{n+1}$

Example: Using the Primes 2 and 3, we get the Prime 5.

References