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Let $x[n] = [n]$. Then, $y[n] = y[n - 1] + y[n - 2] + [n - 1]$. Hence, $y[0] = y[-1] + y[-2] = 0$ and $y[1] = 1$. For $n > 1$ the corresponding difference equation is $y[n] = y[n - 1] + y[n - 2]$ with initial conditions $y[0] = 0$ and $y[1] = 1$, which are the same as those for the solution of Fibonacci's sequence.

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