$a_n = (\text{num\_digits}(((a_{n-1} - a_{n-3}) + 1)) + ((((a_{n-1} + a_{n-2}) - a_{n-1}) + \text{num\_digits}(a_{n-1})) - (\max(a_{n-1}, a_{n-1}, a_{n-2}) - \max(a_{n-1}, a_{n-1}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2}) - \max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2}) - \max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2}) - \max(a_{n-1}, a_{n-1}, a_{n-1}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-2}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-2}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-2}, a_{n-2}, a_{n-2})) - (\max(a_{n-1}, a_{n-1}, a_{n-2}, a_{n-2},$