

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