

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