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