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