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