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