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