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