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