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