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