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