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