$a_n = ((((a_{n-3}+1) + (\text{num_digits}(a_{n-1}) + a_{n-3})) + 1) + (\text{reverse}(a_{n-1}) + \min((\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + (((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + (\min(n, n, a_{n-2}) + a_{n-3}), a_{n-1}, a_{n-2})) + ((a_{n-3}+1) + a_{n-3})) + ((a_{n-3$