Problem 4. «Hash function FNV2»

The FNV2 hash function is derived from the function FNV-1a. FNV2 processes a message x composed of bytes $x_1, x_2, \ldots, x_n \in \{0, 1, \ldots, 255\}$ in the following way:

1) $h \leftarrow h_0$;

2) for $i = 1, 2, \ldots, n$: $h \leftarrow (h + x_i)g \bmod 2^{128}$;

3) return h.

Here $h_0 = 144066263297769815596495629667062367629$, $g = 2^{88} + 315$.

Find a collision, that is, two different messages x and x' such that $\texttt{FNV2}(x) = \texttt{FNV2}(x')$. Collisions on short messages and collisions that are obtained without intensive calculations are welcomed. Supply your answer as a pair of two hexadecimal strings which encode bytes of colliding messages.