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Dear Professor Sloane,

The example I always give is the one starting from 10, 219 which satisfies
a 4-th order recurrence for 1402 terms.

I suspect that you can have an example with recurrence holding for finite,
but arbitrarily long time starting from 10 and 19+100n for
sufficiently large n. I know that for n=0 it holds forever and for
n=1 for a few hundred terms.

Yours sincerely,             Jaroslaw Wroblewski