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## A linear recurrence sequence of composite numbers

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We prove that for each positive integer  $k$  in the range  $2 \leq k \leq 10$  and for each positive integer  $k \equiv 79 \pmod{120}$  there is a  $k$ -step Fibonacci-like sequence of composite numbers and give some examples of such sequences. This is a natural extension of a similar result of Graham[1] for the Fibonacci-like sequence.

### References

- [1] R.L. Graham, *A Fibonacci-like sequence of composite numbers*, Math. Mag. **37** (1964), 322–324.