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Abstract

We explore the periodicity of the ones digits in the sequences $\{C_n\}$, $\{C_{t_n}\}$, $\{C_{2t_n}\}$, $\{C_{4t_n}\}$, $\{C_{t_{t_n}}\}$, $\{C_{8t_{t_n}}\}$, $\{C_{t_{n^2}}\}$, and C_{C_n}, where C_n denotes the nth Jacobsthal or Jacobsthal-Lucas number, and t_n the nth triangular number.