Abstract

We explore the periodicity of the ones digits in the sequences \( \{C_n\} \), \( \{C_{t_n}\} \), \( \{C_{2t_n}\} \), \( \{C_{4t_n}\} \), \( \{C_{s(t_n)}\} \), \( \{C_{t_{n,2}}\} \), and \( C_{C_n} \), where \( C_n \) denotes the \( n \)th Jacobsthal or Jacobsthal-Lucas number, and \( t_n \) the \( n \)th triangular number.