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**Title:** Congruences for Catalan–Larcombe–French numbers

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Let  $\{P_n\}$  be the Catalan–Larcombe–French numbers given by  $P_0 = 1$ ,  $P_1 = 8$  and  $n^2P_n = 8(3n^2 - 3n + 1)P_{n-1} - 128(n-1)^2P_{n-2}$  ( $n \geq 2$ ), and let  $S_n = P_n/2^n$ . In this paper, we deduce congruences for  $S_{np}$ ,  $S_{np+1} \pmod{p^3}$ ,  $S_{mp^r-1} \pmod{p^r}$  and  $S_{mp^r+1} \pmod{p^{2r}}$ , where  $p$  is an odd prime and  $m, n, r$  are positive integers.

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