MATHEMATICS

The \( n + k \) kings problem. R. DOUGLAS CHATHAM, Department of Mathematics and Physics, Morehead State University, Morehead KY 40351.

The “\( n \)-kings problem” asks for arrangements of \( n \) pieces on an \( n \)-by-\( n \) board so that no two pieces attack each other as kings or as rooks. We add pawns to the problem and show that for \( n > k + 4 \), we can place \( k \) pawns and \( n+k \) kings on an \( n \)-by-\( n \) board so that no two kings attack each other as kings or as rooks.