

### NON ATTACKING ROOKS

Place  $n$  rooks on an  $n \times n$  chessboard so that no rook attacks any other and no rook lies on the squares of the main diagonal ( $n \geq 4$ )

### NON ATTACKING BISHOPS

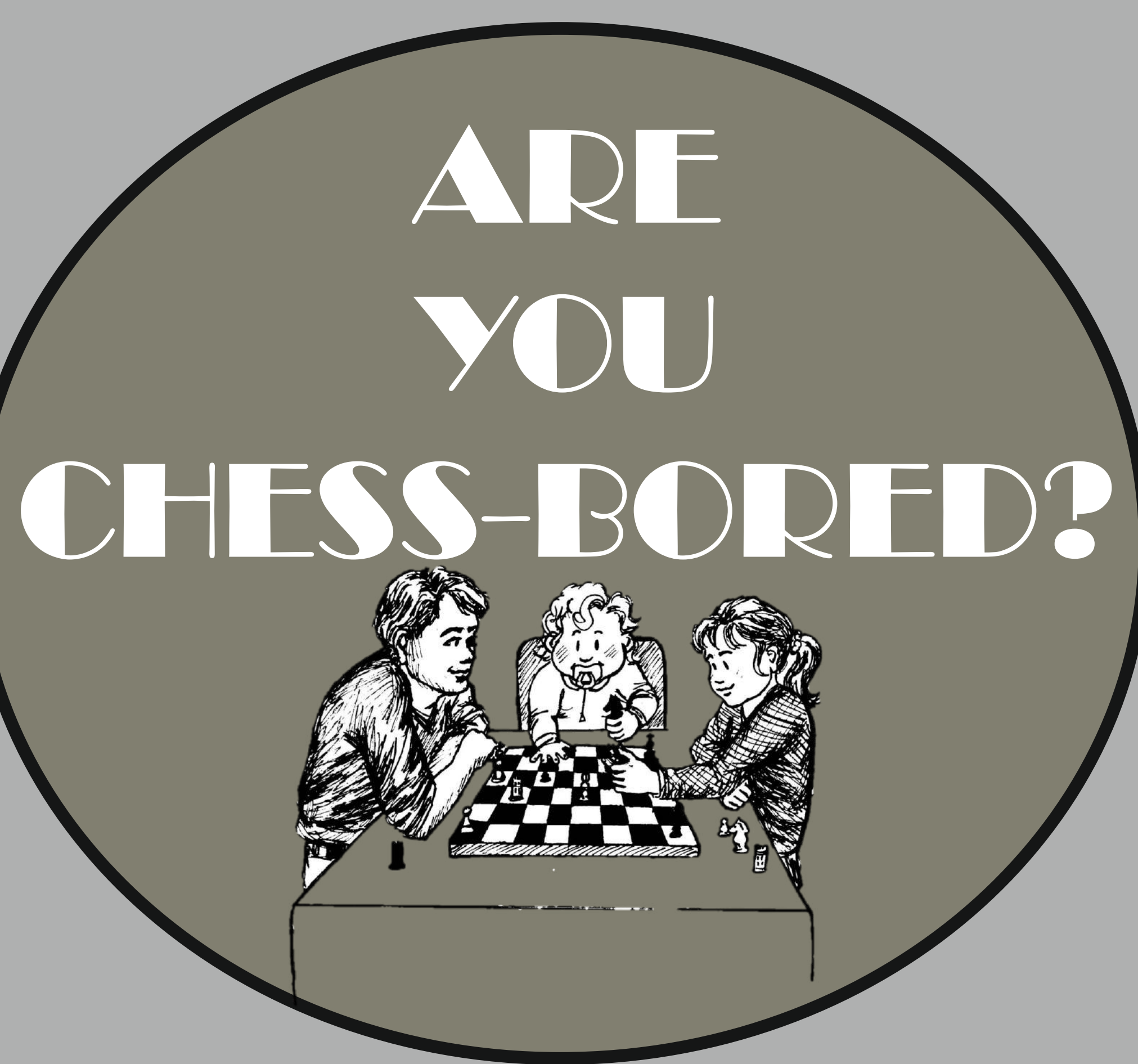
Place  $n$  bishops on an  $n \times n$  chessboard so that no bishop attacks any other ( $n \geq 4$ )

### NON ATTACKING KNIGHTS

Place  $n$  knights on an  $n \times n$  chessboard so that no knight attacks any other ( $n \geq 4$ )

### GUARINI'S KNIGHT SWITCHING PROBLEM

Exchange positions of two black and two white knights, placed at the corners of a  $3 \times 3$  chessboard



### KNIGHT'S TOUR

Find a route on an  $n \times n$  chessboard which consists of moving a knight so that it moves successively to each square once and only once ( $n \geq 6$ ,  $n$  is even)

### NON ATTACKING QUEENS

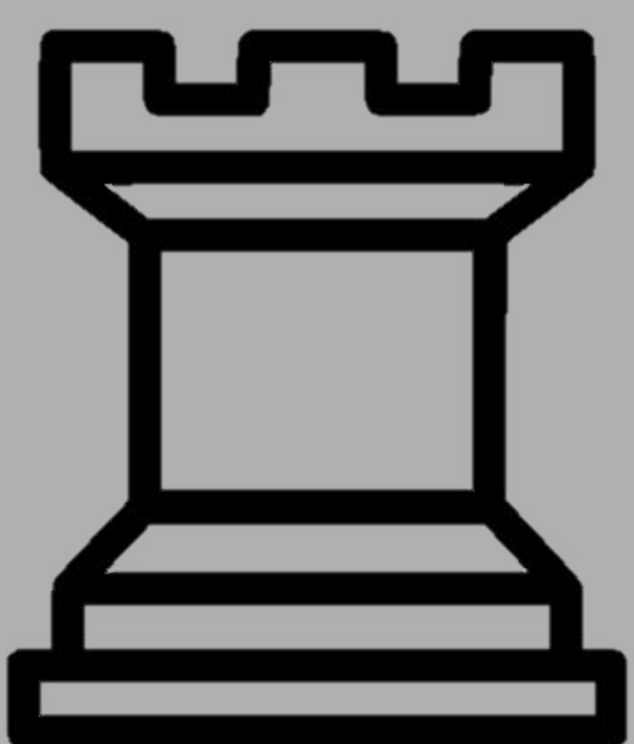
Place  $n$  queens on an  $n \times n$  chessboard so that no queen is attacked by another ( $n \geq 4$ )

### NON ATTACKING ROOKS AND QUEENS

Place  $n/2$  rooks and  $n/2$  queens on an  $n \times n$  chessboard so that no player attacks any other ( $n \geq 4$ ,  $n$  is even)

### NON ATTACKING BISHOPS AND KNIGHTS

Place  $n/2$  bishops and  $n/2$  knights on an  $n \times n$  chessboard so that no player attacks any other ( $n \geq 4$ ,  $n$  is even)



ROOK



KNIGHT



QUEEN



BISHOP