**四皇后问题**

**实验代码：**

**def** check(board, row, col):  
 i = 0  
 **for** i **in** range(row):  
 **if** abs(board[i] - col) == 0 **or** abs(board[i] - col) == abs(i - row):  
 **return False  
 return True  
  
  
def** eightqueen(board, row):  
 border = len(board)  
 **if** row >= border:  
 **for** i, col **in** enumerate(board):  
 print(**'□ '** \* col + **'■ '** + **'□ '** \* (len(board) - 1 - col))  
 print(**""**)  
 col = 0  
 **while** col < border:  
 **for** col **in** range(border):  
 **if** check(board, row, col):  
 board[row] = col  
 eightqueen(board, row + 1)  
 col += 1  
  
  
board = [0 **for** i **in** range(4)]  
eightqueen(board, 0)

运行截图：

