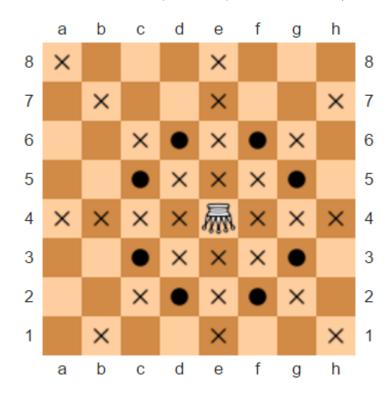
BACK

Amazon Checkmate



DESCRIPTION MY SOLUTIONS LEADERBOARD COMMENTS README CODEWRITING SCORE: 300/300

An amazon (also known as a queen+knight compound) is an imaginary chess piece that can move like a queen or a knight (or, equivalently, like a rook, bishop, or knight). The diagram below shows all squares which the amazon attacks from e4 (circles represent knight-like moves while crosses correspond to queen-like moves).



Recently you've come across a diagram with only three pieces left on the board: a white *amazon*, white king and black king. It's black's move. You don't have time to determine whether the game is over or not, but you'd like to figure it out in your head. Unfortunately, the diagram is smudged and you can't see the position of the black's king, so it looks like you'll have to check them all.

Given the positions of white pieces on a standard chessboard, determine the number of possible black king's positions such that:

- it's checkmate (i.e. black's king is under amazon's attack and it cannot make a valid move);
- it's check (i.e. black's king is under amazon's attack but it can reach a safe square in one move);
- it's stalemate (i.e. black's king is on a safe square but it cannot make a valid move);
- black's king is on a safe square and it can make a valid move.

Note that two kings cannot be placed on two adjacent squares (including two diagonally adjacent ones).

Example

• For king = "d3" and amazon = "e4", the output should be amazonCheckmate(king, amazon) = [5, 21, 0, 29].

