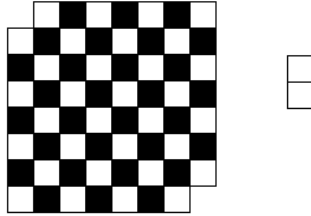


Puzzle 2 - SOLUTION

Problem 1 Consider a chess board with two corners missing, as indicated on the picture below. We also have 31 pieces of domino, each of them can cover exactly 2 fields on the chess board. Is it possible to cover the chessboard with the domino pieces?



Solution 1 The solution boils down to coloring. No matter how place a domino, it will always cover exactly one white and one black field. The original chess board had 32 white and 32 black fields. Since the two corners missing are both black, now we need to cover 32 white and 30 black fields with 31 dominos. This is obviously impossible.