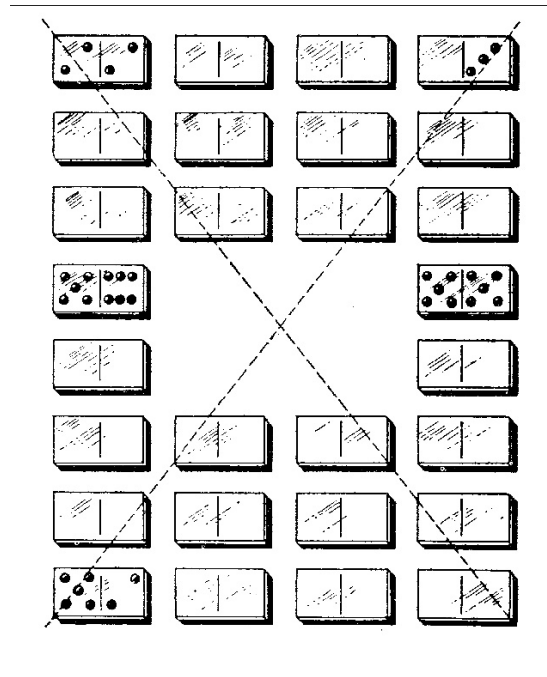


A Magic Square with a Hole (MP#204)



Whilst using all 28 dominoes, form a rectangular array with a central hole, as shown. The sum of each of the eight rows, eight columns, and each of the diagonals (shown by dotted lines) must be 21. For rows, add whole dominoes; for columns, add half dominoes (squares) and for diagonals, add the 6 half-dominoes covered by the dotted line. "The fourth row from the top has been filled in. Its sum is $5+6+5+5=21$. The four corner pieces have also been filled in, including the double blank in the bottom right corner." Your implementation should be able to keep track of the sums of all the rows, diagonals and columns, and be able to allow the user to move dominoes from a stockpile into the allowed positions in the layout.