

Multi-Balance Puzzles

Put the digits 1-n, each used exactly once, into the grid so that:

- 1) no row or column contains exactly one digit,
- 2) every row or column that contains 2 or more digits contains exactly one fulcrum,
- 3) each fulcrum is used horizontally or vertically, but not both, and
- 4) each fulcrum is located where those weights would balance, with equal torques on both sides.

A solved puzzle using the digits 1-6 is shown to the right:

1					6
4					3
2					5

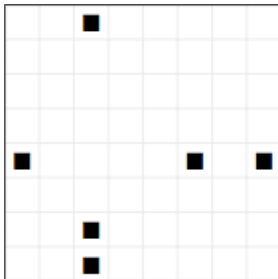
Each puzzle below has a unique solution.

digits 1-6:

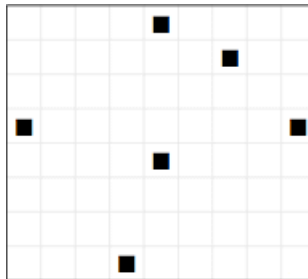


solution

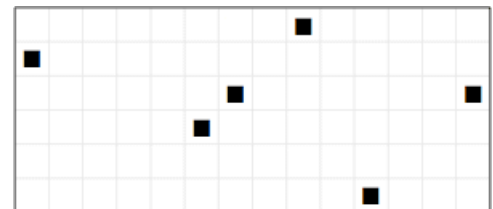
digits 1-7:



solution

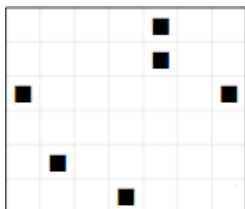


solution

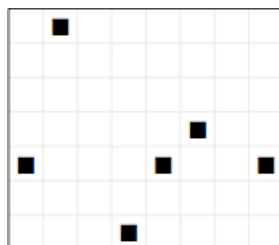


solution

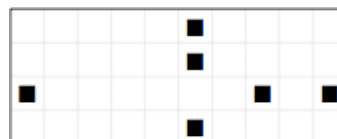
digits 1-8:



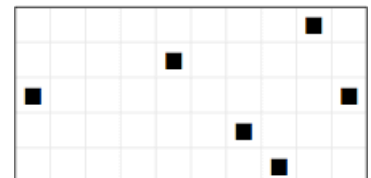
solution



solution

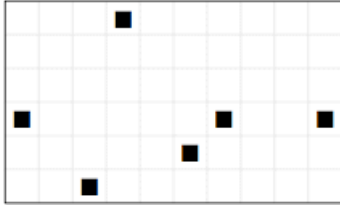


solution

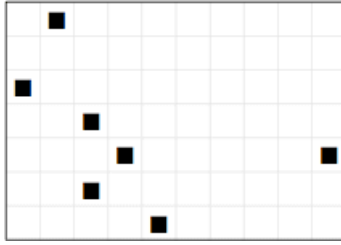


solution

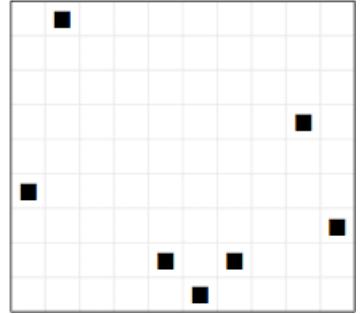
digits 1-8:



solution



solution



solution
