

Beamzag

Sample page: three puzzles and their solutions

Draw exactly the number of mirrors shown, in empty squares, so the laser beam lights every gem and ends in the socket. A mirror turns the beam 90 degrees and both of its faces reflect. The beam passes through gems and stops at black squares. Each puzzle has one solution, and it uses every mirror.

 Laser

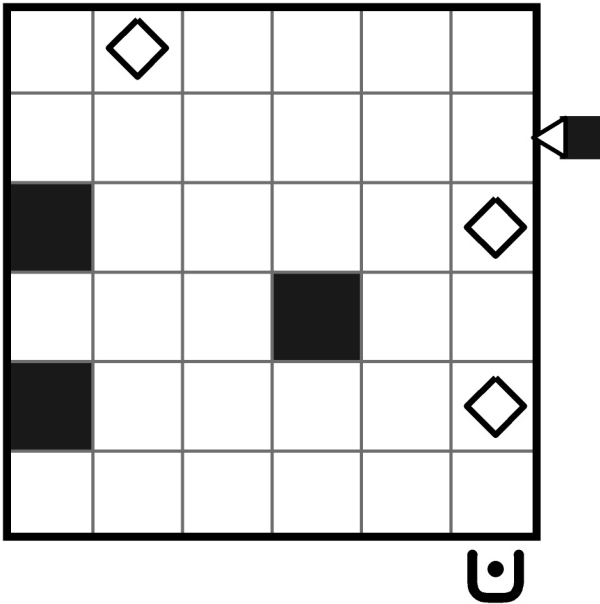
 Socket

 Gem

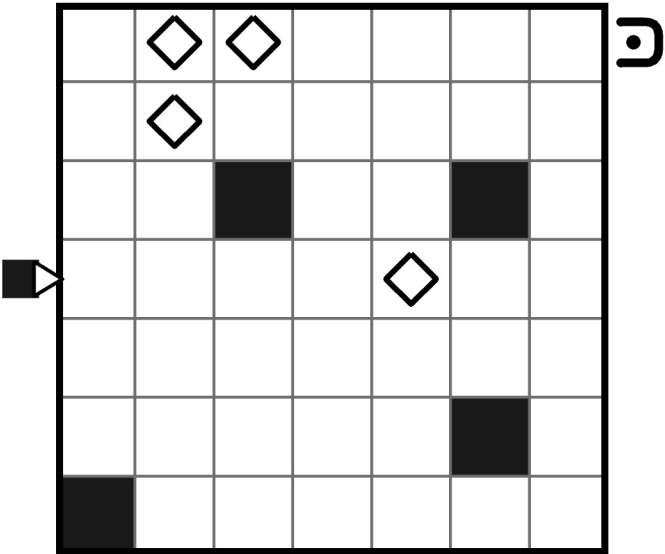
 Black square

 Mirror, either way: / or \

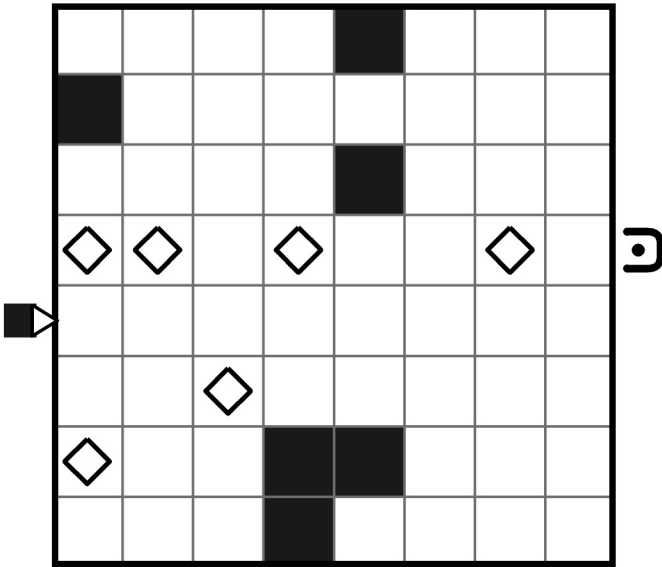
1 Easy, 6x6, 3 mirrors



2 Medium, 7x7, 4 mirrors



3 Hard, 8x8, 6 mirrors



Solutions

1

A 6x6 grid showing the solution for puzzle 1. The laser beam path is highlighted in grey, starting from the right, reflecting off mirrors at (2,6), (4,5), and (6,5), and ending at the socket at (4,6). All three gems are lit.

2

A 7x7 grid showing the solution for puzzle 2. The laser beam path is highlighted in grey, starting from the right, reflecting off mirrors at (1,7), (2,3), (4,4), and (5,6), and ending at the socket at (1,7). All four gems are lit.

3

An 8x8 grid showing the solution for puzzle 3. The laser beam path is highlighted in grey, starting from the left, reflecting off mirrors at (4,1), (4,2), (4,4), (4,7), (6,3), and (7,1), and ending at the socket at (4,7). All six gems are lit.

Boards can be made at any size from 5x5 to 10x10, with two to seven mirrors, each with its solution, sized for one or two columns.