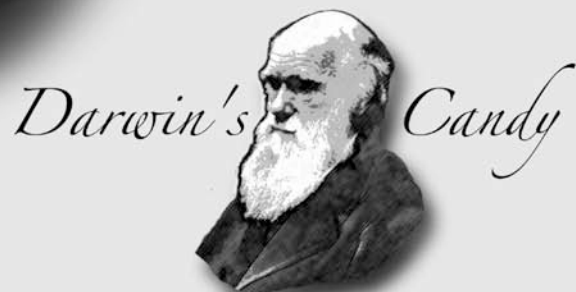
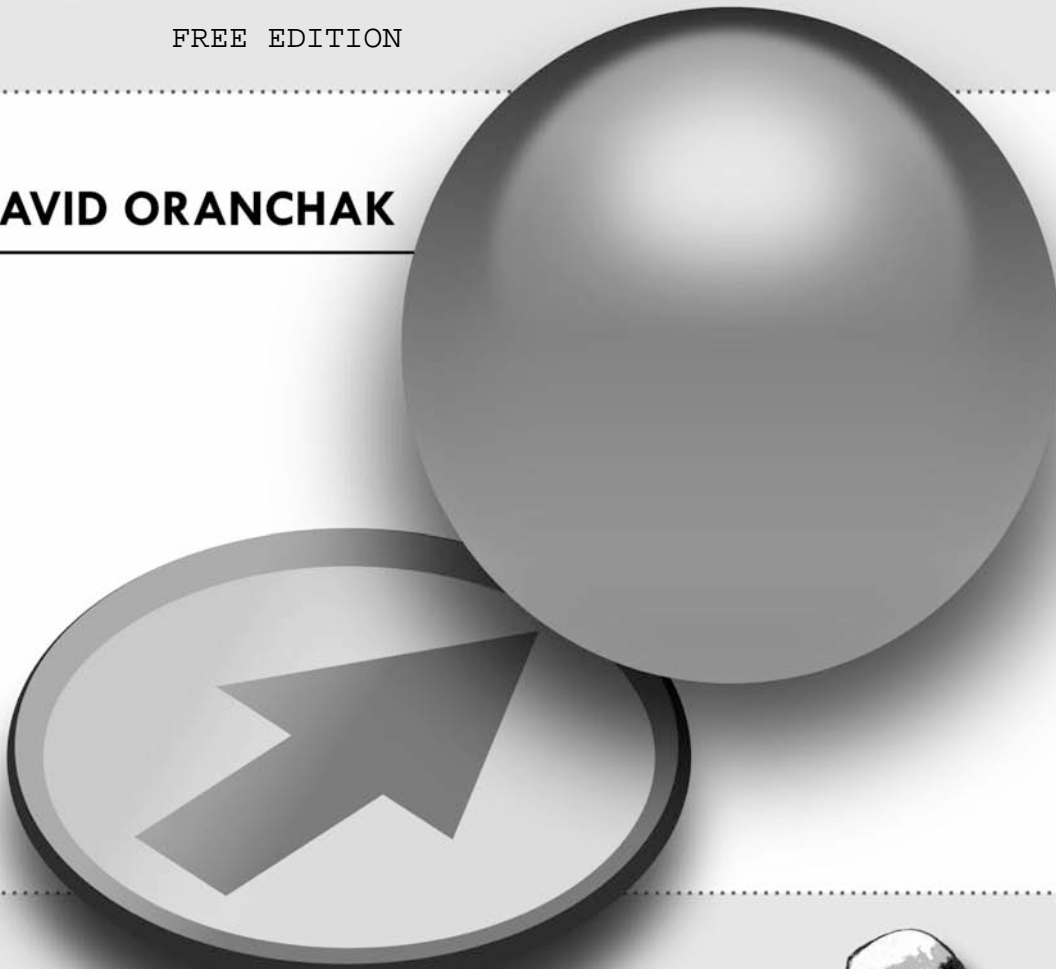


THE BIG BOOK OF SHINRO PUZZLES

FREE EDITION

DAVID ORANCHAK



darwincandy.com

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Published by Darwin's Candy
Roanoke, VA

*To Kathryn, Iris, Mila, my parents, and
grandparents for their support and inspiration.*

Introduction

Shinro is a simple logic puzzle that first appeared in Japanese puzzle magazines. The puzzle company Puzzability discovered the puzzles and coined the name Shinro, which is a Japanese word that means “compass-bearing.” The company created an international sensation by publishing the puzzles in *Spirit*, the in-flight magazine of Southwest Airlines. The puzzle’s simple rules, and its similarities to Sudoku and Minesweeper, make it very appealing to puzzle enthusiasts. In this book you will find 616 brand new, never-before-seen Shinro puzzles that will challenge and entertain you.



“Shinro” in Japanese

How To Play

There are three
marbles in this row

↓

There is one
marble in this column

→

	1	0	1	1	1	2	4	2
1						↖	↗	
3								
2								
3					↖			
1			↖				↖	
1								
0								
1		→						

32

↑

Puzzle
number

Difficulty
measurement

↑

Easy

↑

Difficulty
category

	1	0	1	1	1	2	4	2
1				●		↖	↗	
3			●		●		●	
2	●						●	
3					↖	●	●	●
1			↖			●	↖	
1								●
0								
1		→					●	

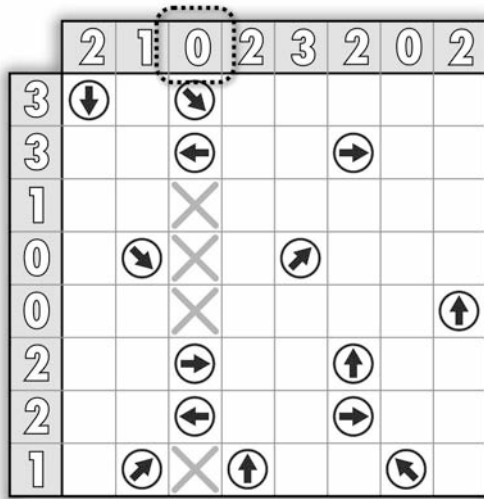
Puzzle solution

A Shinro puzzle is an 8x8 square grid. Your job is to locate twelve hidden marbles, based on the clues in the puzzle: numbers and arrows. A number on the top tells you how many marbles are in the column underneath the number. A number on the side tells you how many marbles are in the row next to the number. Each arrow on the puzzle board points to at least one hidden marble. Not every marble has an arrow pointing to it.

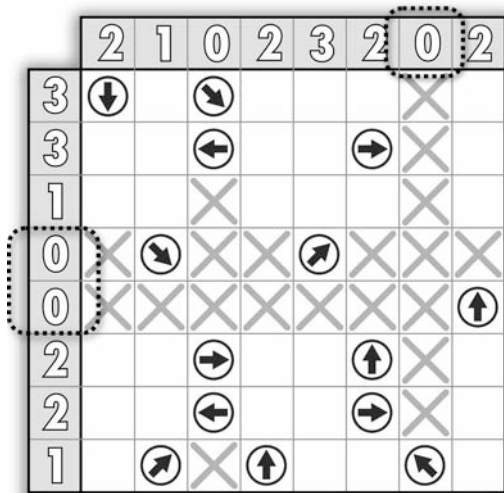
Every puzzle in this book can be solved entirely with logic and reason. No guessing is required! If you get stuck, and need some hints, look at the strategy guide in the Appendix. Every puzzle can be solved using the techniques described there. For the best challenge, try to discover these techniques on your own!

Below each puzzle you will find a puzzle number, a difficulty measurement, and a difficulty category. A puzzle can be Easy, Medium, or Hard, and the bar shows you exactly how difficult the puzzle is. The longer the bar, the more time you might need to solve the puzzle!

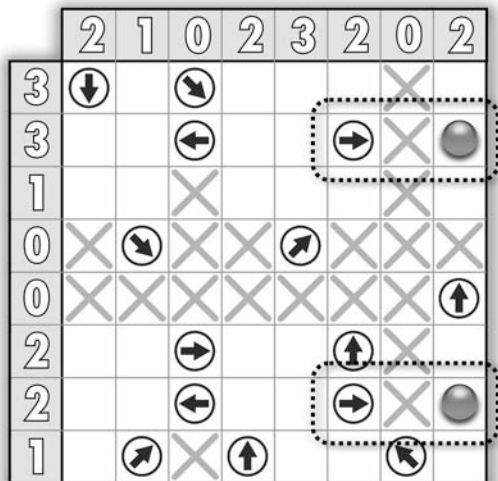
To help you get started, the next few pages show you how to solve an easy puzzle.



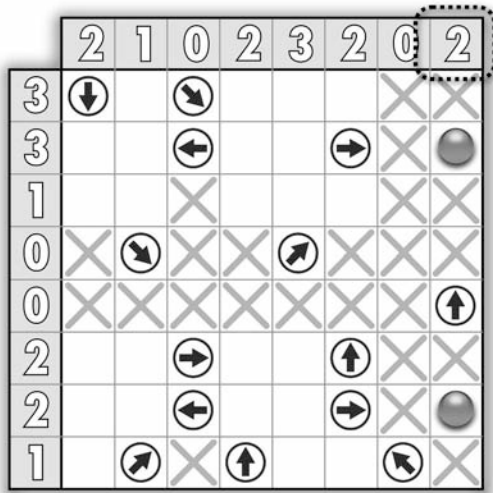
This column has zero marbles, so we can mark off each of its empty squares.



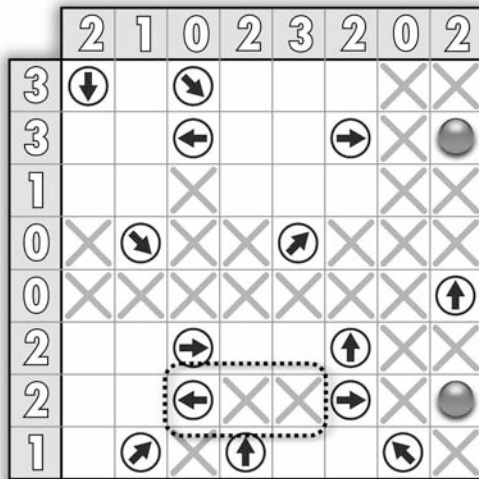
Similarly, these rows and column also have zero marbles, and we can eliminate the empty squares.



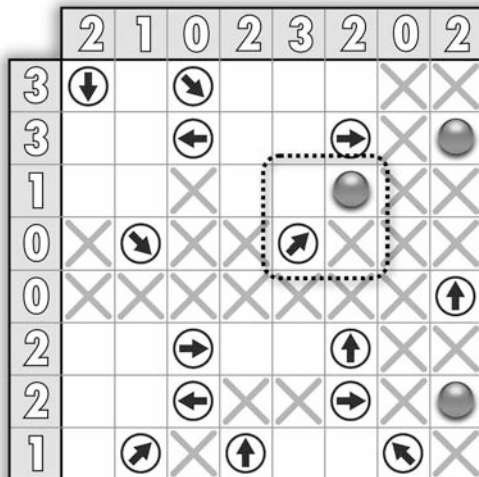
Each of these arrows points to a single empty square. Therefore, that square *must* contain a marble.



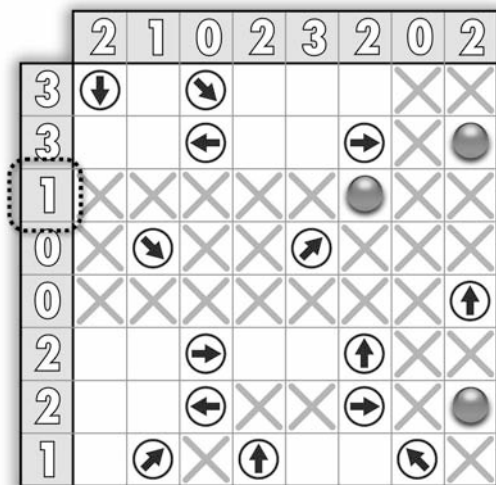
This column is now satisfied, so we can eliminate the remaining empty squares.



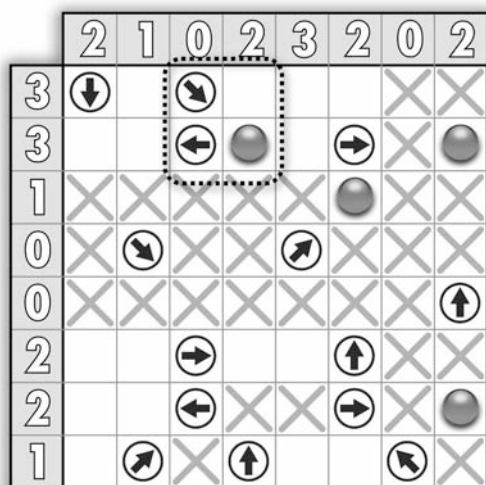
The arrow here is pointing to the left. There is only one marble left to find in this row. It cannot be found in the empty squares to the arrow's right, because then satisfying the arrow becomes impossible.



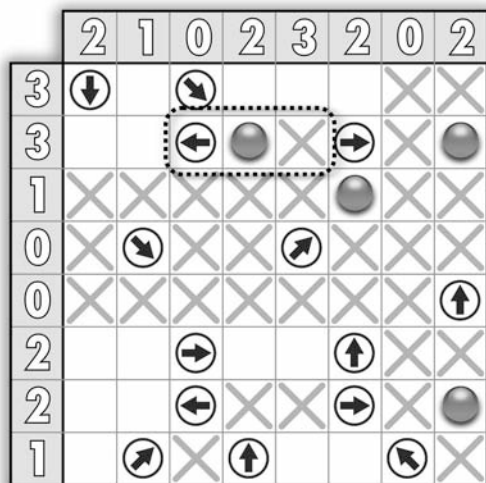
This arrow points to a single empty square. Thus, the empty square must contain a marble.



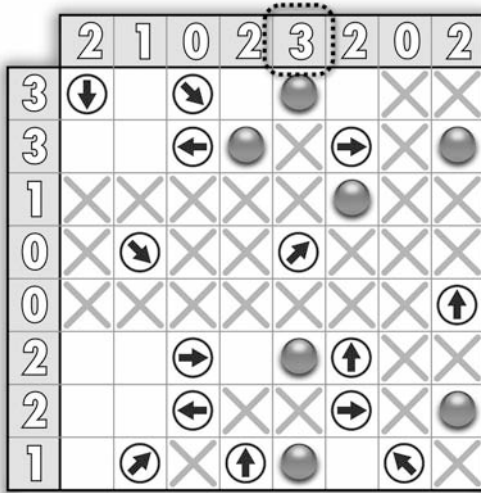
This row is now satisfied.



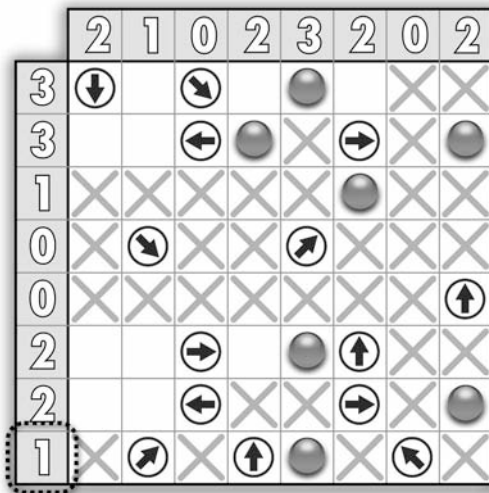
This arrow points to a single empty square. Thus, the empty square must contain a marble.



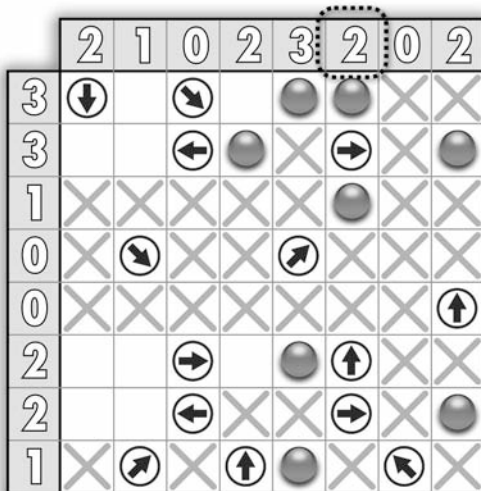
The eliminated square here cannot contain a marble. Otherwise, the left-facing arrow cannot be satisfied.



This column has three marbles, and three empty squares. Therefore, the empty squares must contain marbles.



This row is now satisfied.



There are two marbles in this column, so its last remaining empty square must contain a marble.

	2	1	0	2	3	2	0	2
3	↓		↘		●	●	×	×
3			←	●	×	→	×	●
1	×	×	×	×	×	●	×	×
0	×	↘	×	×	↗	×	×	×
0	×	×	×	×	×	×	×	↑
2			→	●	●	↑	×	×
2			←	×	×	→	×	●
1	×	↗	×	↑	●	×	↖	×

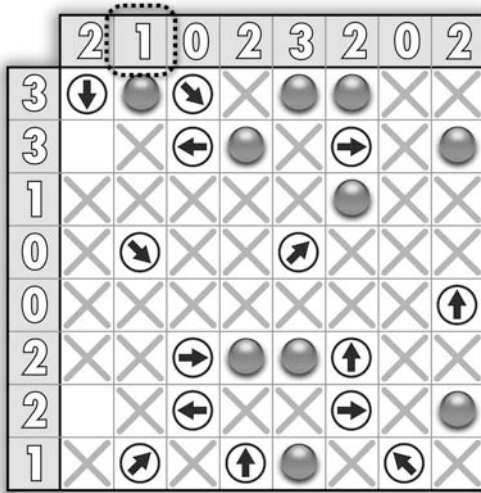
The arrow here points diagonally to only one empty square. Therefore, the empty square must contain a marble.

	2	1	0	2	3	2	0	2
3	↓		↘	×	●	●	×	×
3			←	●	×	→	×	●
1	×	×	×	×	×	●	×	×
0	×	↘	×	×	↗	×	×	×
0	×	×	×	×	×	×	×	↑
2	×	×	→	●	●	↑	×	×
2			←	×	×	→	×	●
1	×	↗	×	↑	●	×	↖	×

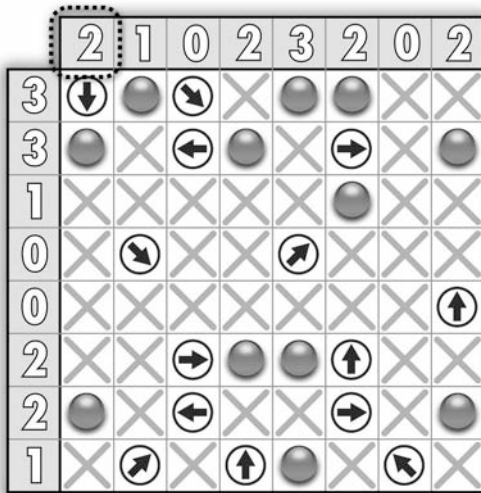
This row and column are now satisfied, so we can eliminate all of their remaining empty squares.

	2	1	0	2	3	2	0	2
3	↓	●	↘	×	●	●	×	×
3			←	●	×	→	×	●
1	×	×	×	×	×	●	×	×
0	×	↘	×	×	↗	×	×	×
0	×	×	×	×	×	×	×	↑
2	×	×	→	●	●	↑	×	×
2			←	×	×	→	×	●
1	×	↗	×	↑	●	×	↖	×

We found two of the three marbles in this row, and there is only one empty square remaining. Therefore, the square must contain the third marble.



This column is now satisfied.



This column has two marbles, and only two empty squares. Therefore, the empty squares must contain marbles.

Congratulations! You have solved your first Shinro puzzle. Now, go forth and conquer the remaining 616 puzzles!

About This Book

This book contains 616 Shinro puzzles, divided among six sections. Puzzles at the beginning of each section are easy, and the puzzles increase in difficulty as you work through the section. Each section contains puzzles of a specific theme:

Traditional Shinro: These puzzles contain simple placements of arrows and marbles that follow no specific pattern.

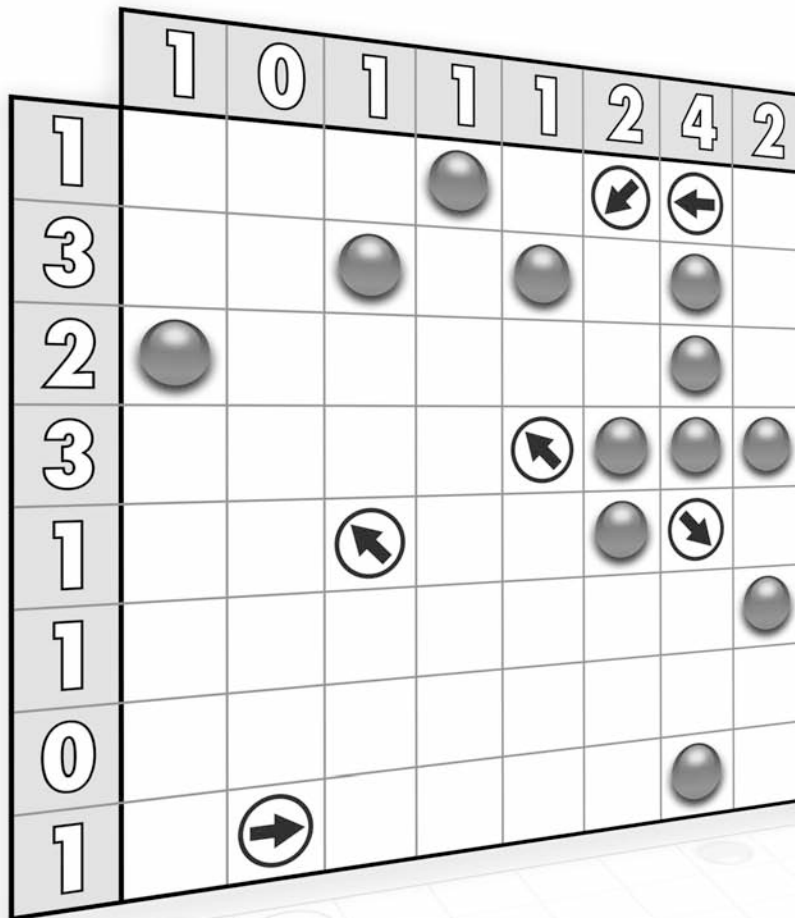
Mirror Shinro: In this section, each puzzle has arrows and marbles that are reflected horizontally, vertically, and/or diagonally.

Marble Pattern Shinro: When you solve puzzles in this section, you will find that the marbles are arranged in some pattern, such as the form of a symbol, design, number, or letter of the alphabet.

MEGA SHINRO: The ultimate challenge: Shinro puzzles on a giant 16x16 board. You have to find 48 marbles instead of a mere 12!

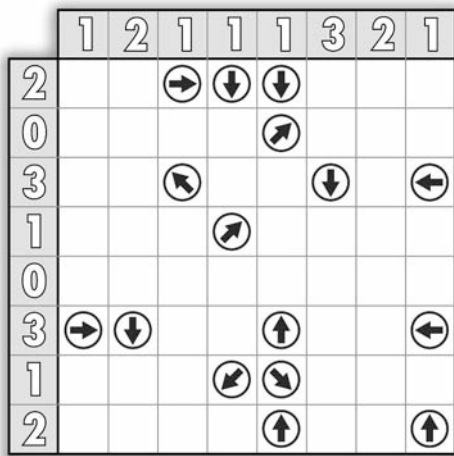
You can find puzzle solutions at the ends of each section.

Traditional Shinro

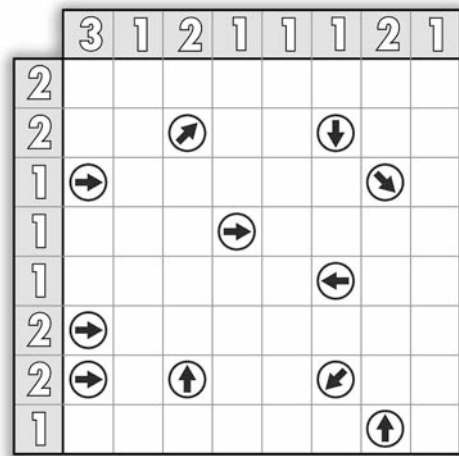


"There's something in the human personality which resents things that are clear, and conversely, something which is attracted to puzzles, enigmas, and allegories."

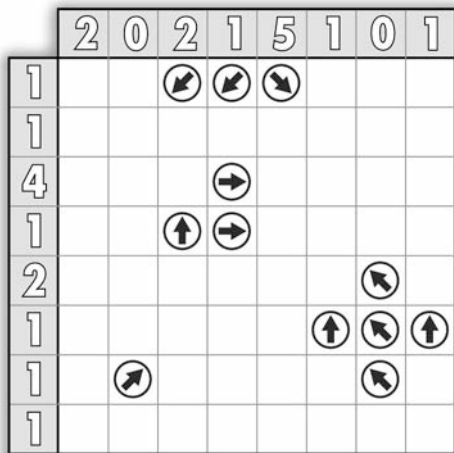
- Stanley Kubrick



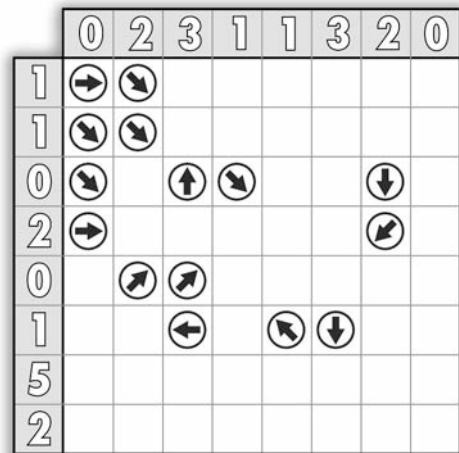
1 Easy



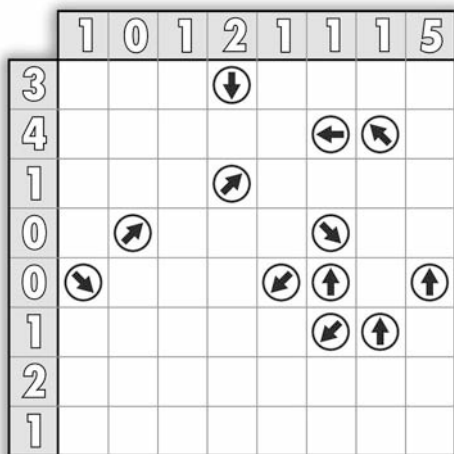
2 Easy



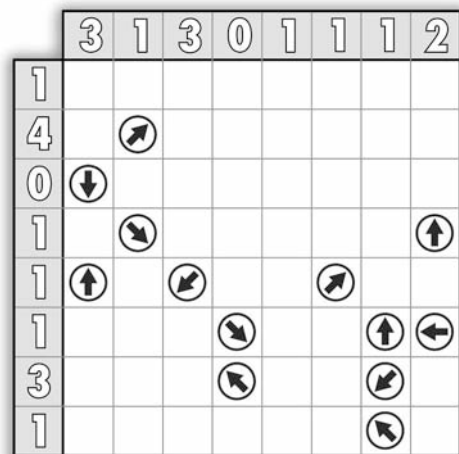
3 Easy



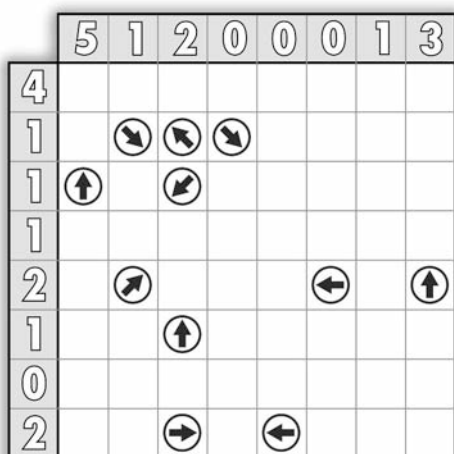
4 Easy



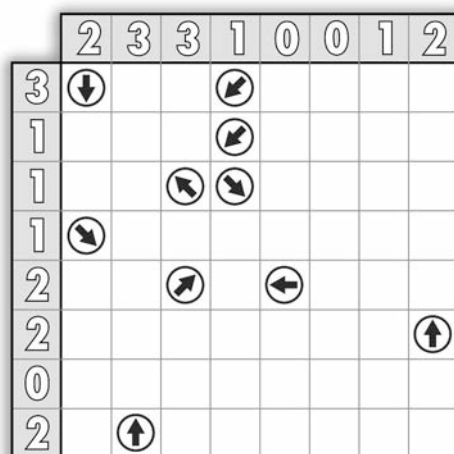
5 Easy



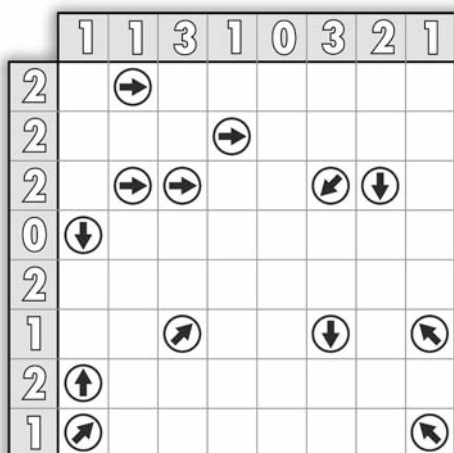
6 Easy



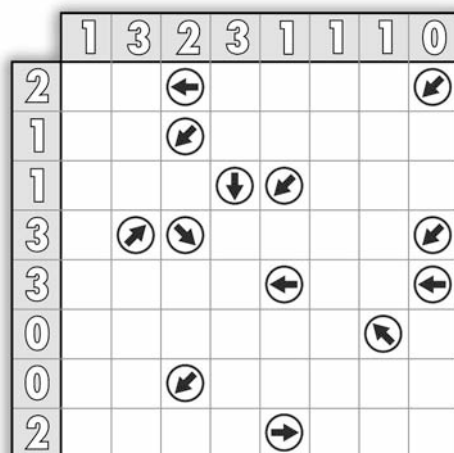
7 ☐ ☐ ☐ ☐ ☐ Easy



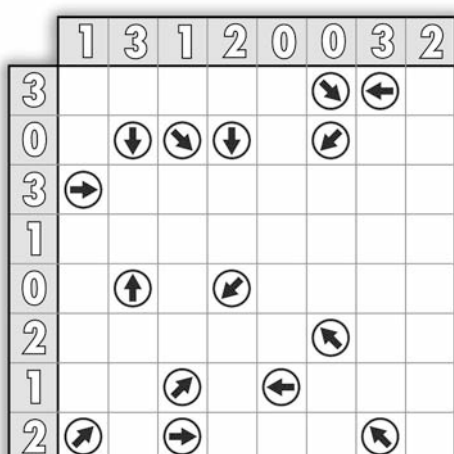
8 ☐ ☐ ☐ ☐ ☐ Easy



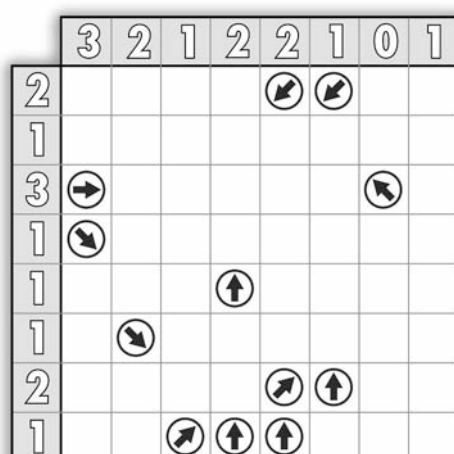
9 ☐ ☐ ☐ ☐ ☐ Easy



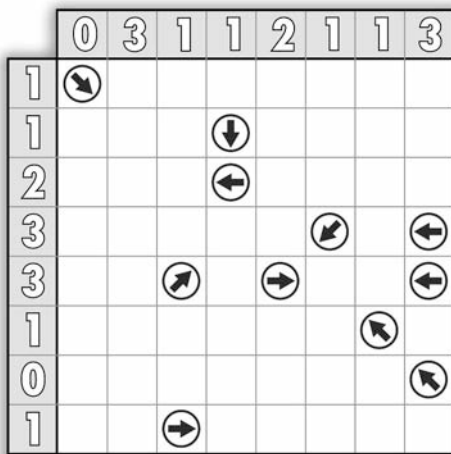
10 ☐ ☐ ☐ ☐ ☐ Easy



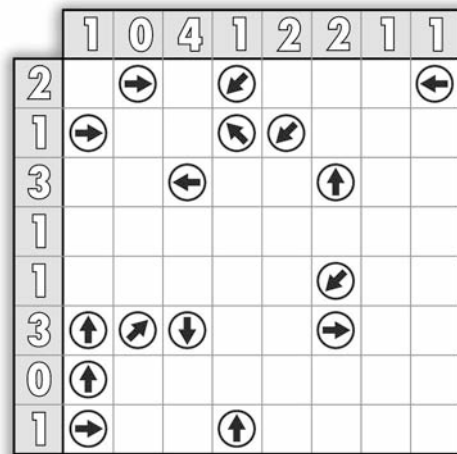
11 ☐ ☐ ☐ ☐ ☐ Easy



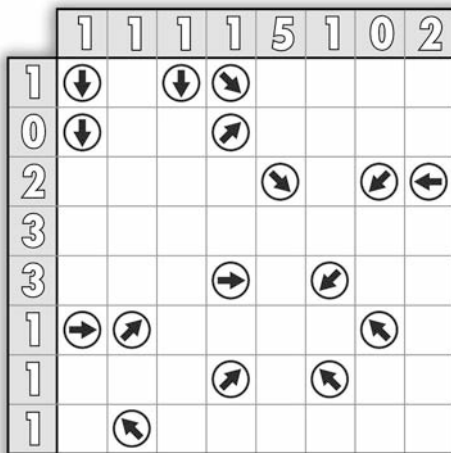
12 ☐ ☐ ☐ ☐ ☐ Easy



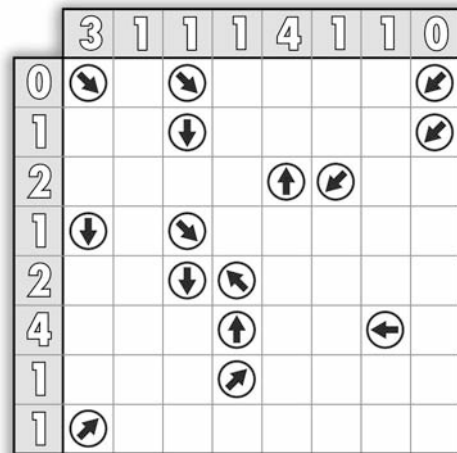
13 ☐ ☐ ☐ ☐ ☐ Easy



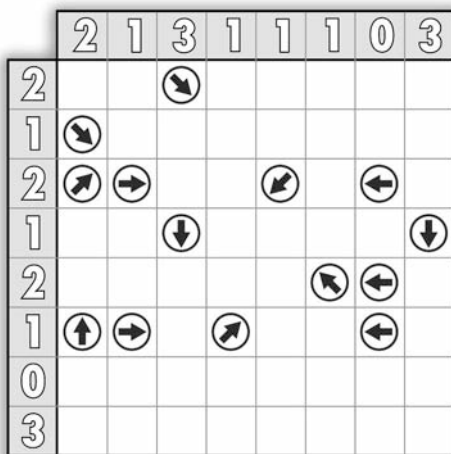
14 ☐ ☐ ☐ ☐ ☐ Easy



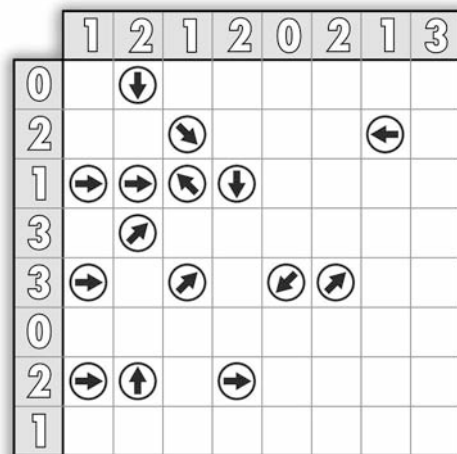
15 ☐ ☐ ☐ ☐ ☐ Easy



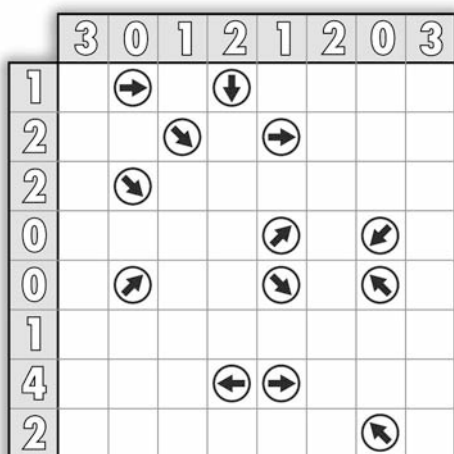
16 ☐ ☐ ☐ ☐ ☐ Easy



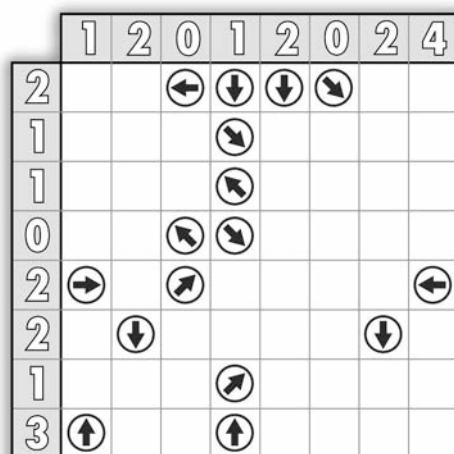
17 ☐ ☐ ☐ ☐ ☐ Easy



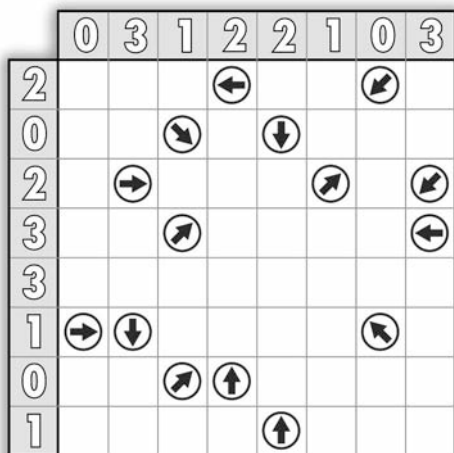
18 ☐ ☐ ☐ ☐ ☐ Easy



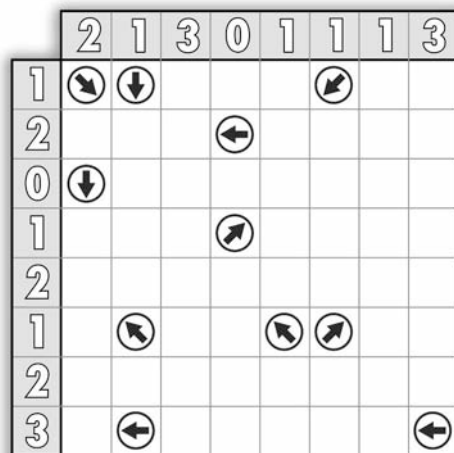
19 Easy



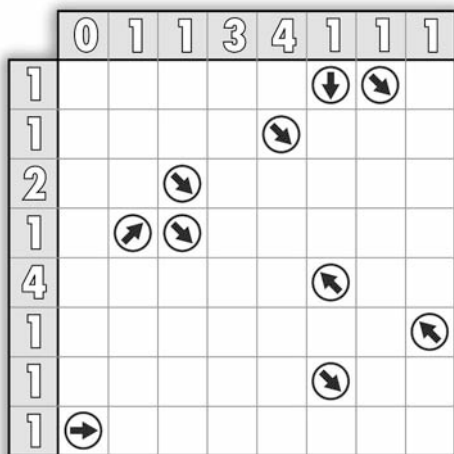
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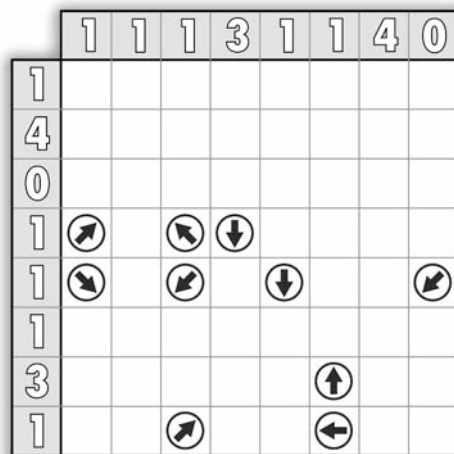
21 Easy



22 Easy

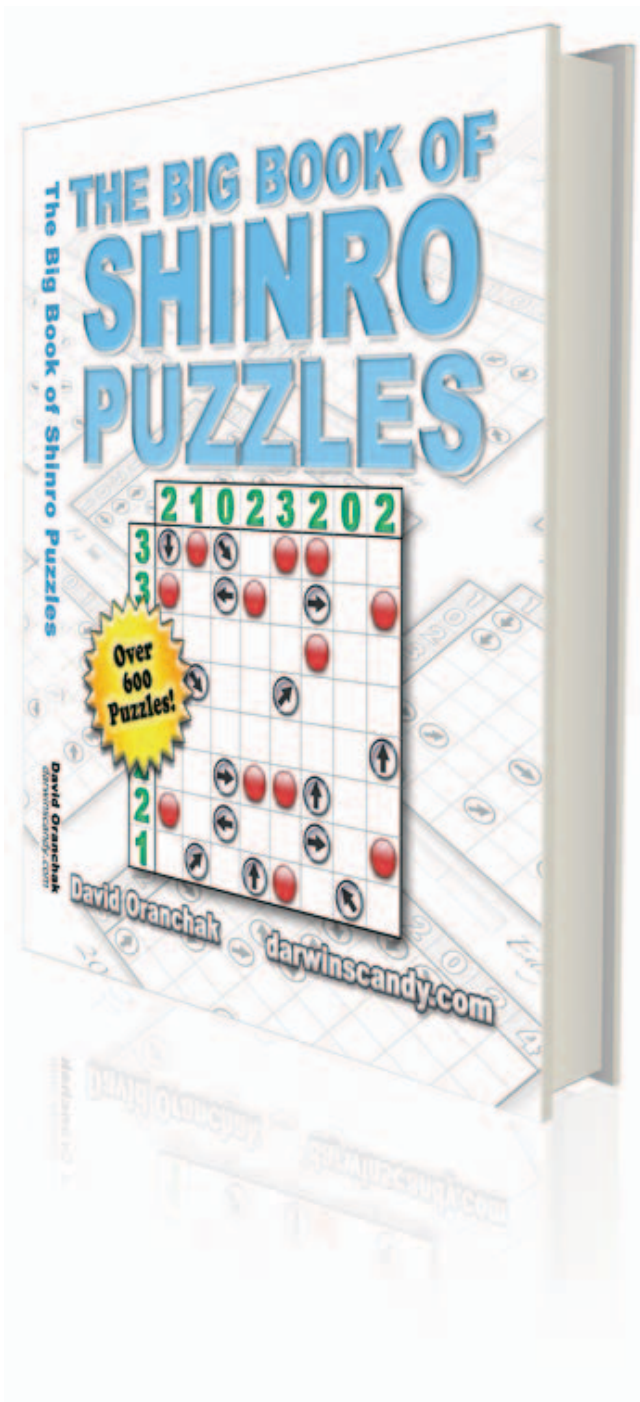


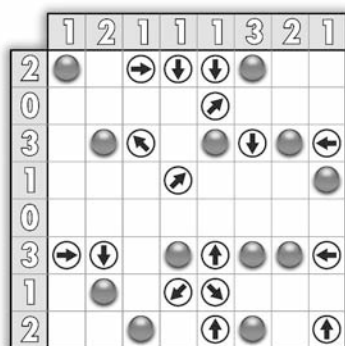
23 Easy



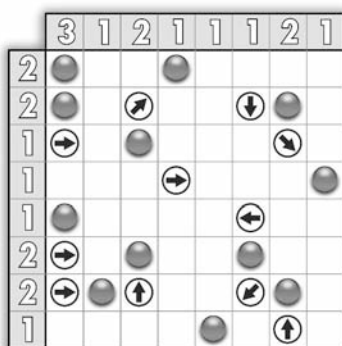
24 Easy

Want more puzzles? Get **all 616 of them** in the full book, available to buy at PlayShinro.com!

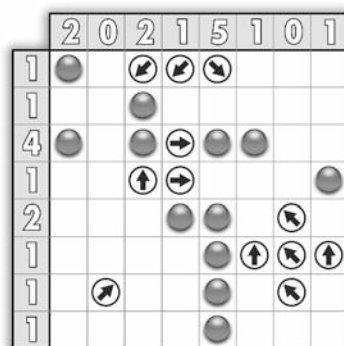




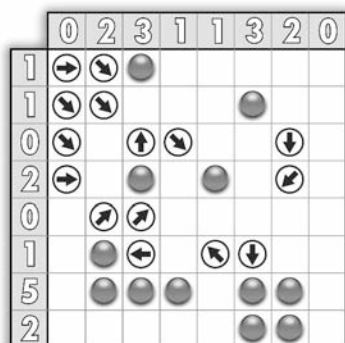
1 ☐ ☐ ☐ ☐ ☐ Easy



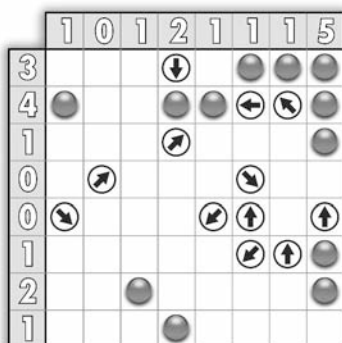
2 ☐ ☐ ☐ ☐ ☐ Easy



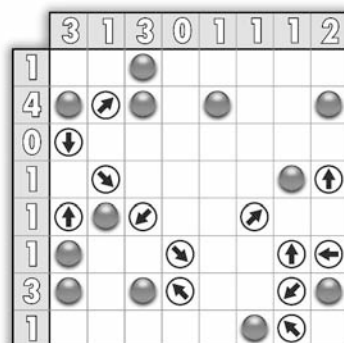
3 ☐ ☐ ☐ ☐ ☐ Easy



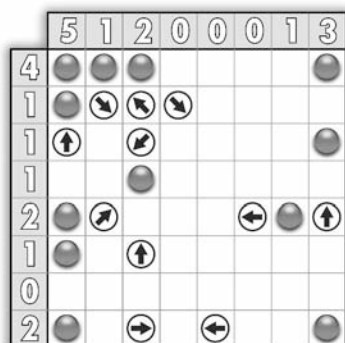
4 ☐ ☐ ☐ ☐ ☐ Easy



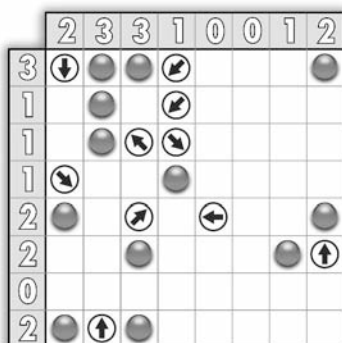
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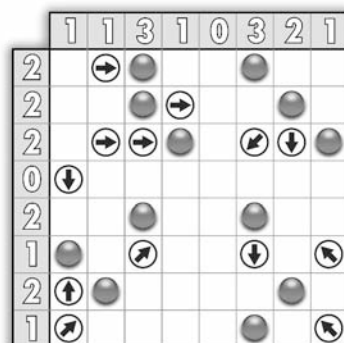
6 ☐ ☐ ☐ ☐ ☐ Easy



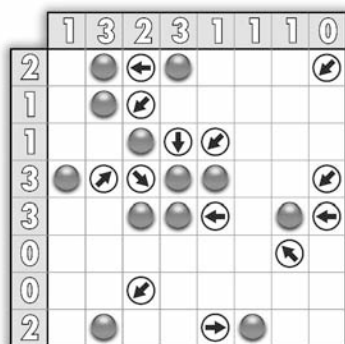
7 ☐ ☐ ☐ ☐ ☐ Easy



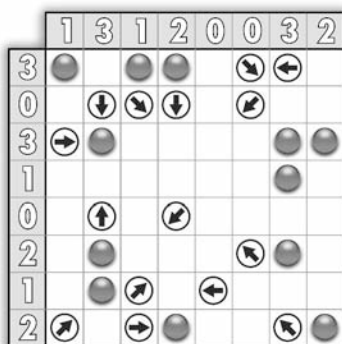
8 ☐ ☐ ☐ ☐ ☐ Easy



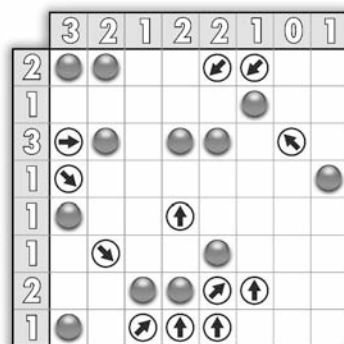
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10 ☐ ☐ ☐ ☐ ☐ Easy

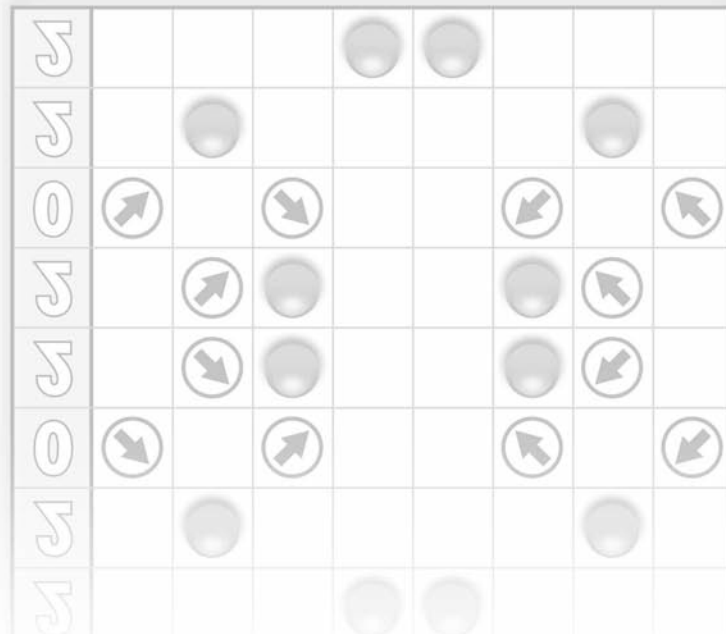
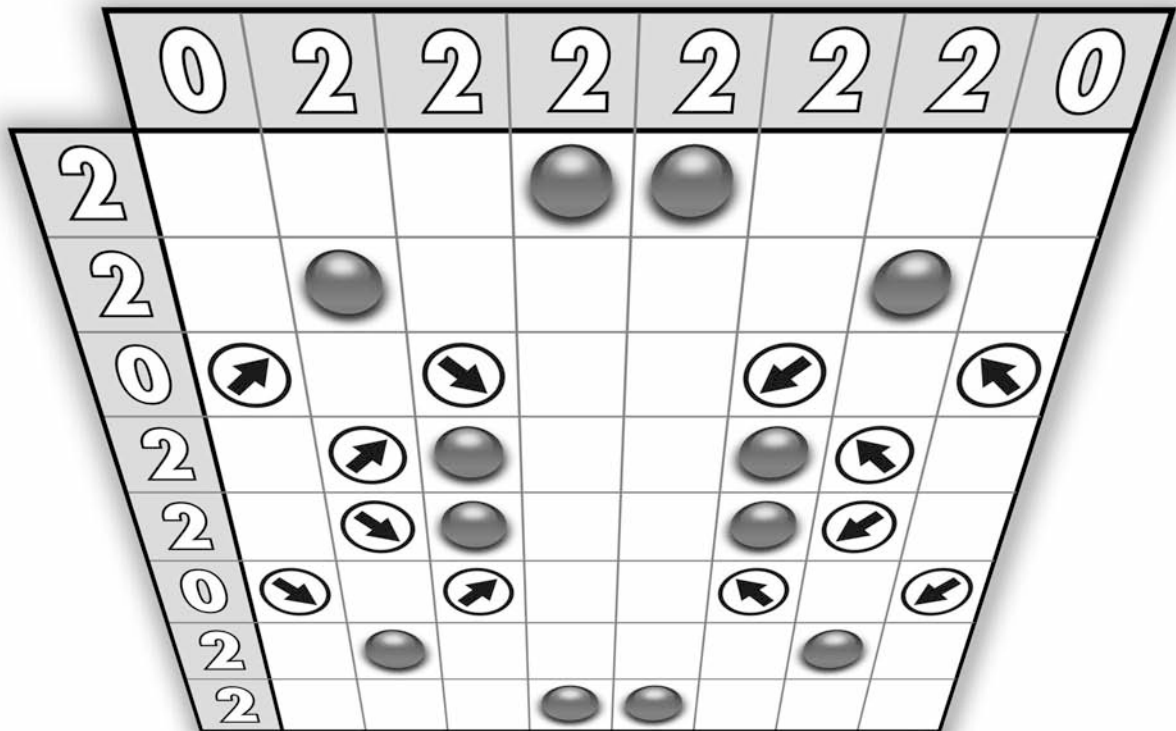


11 ☐ ☐ ☐ ☐ ☐ Easy

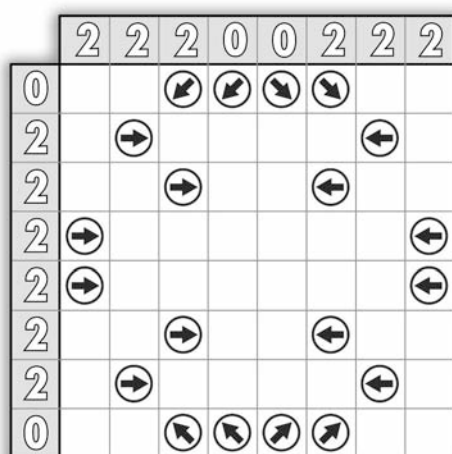


12 ☐ ☐ ☐ ☐ ☐ Easy

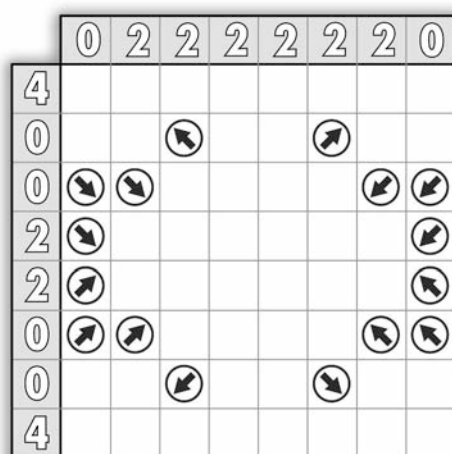
Mirror Shinro



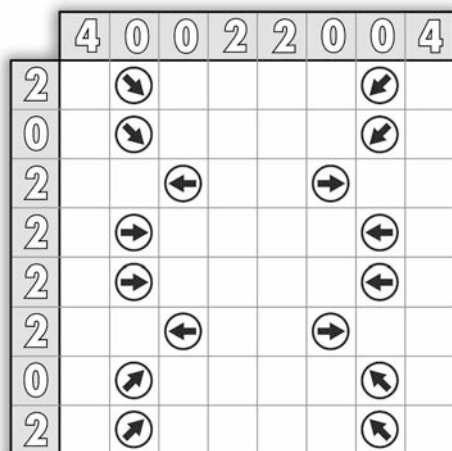
*"As palace mirror'd in the stream, as vapour mingled with the skies,
So weaves the brain of mortal man the tangled web of Truth and Lies."
- Richard Francis Burton*



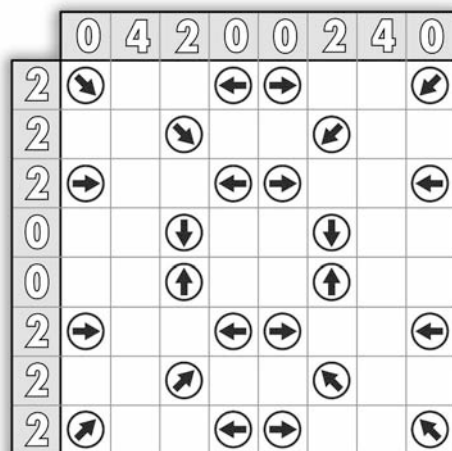
1 ☐ ☐ ☐ ☐ ☐ Easy



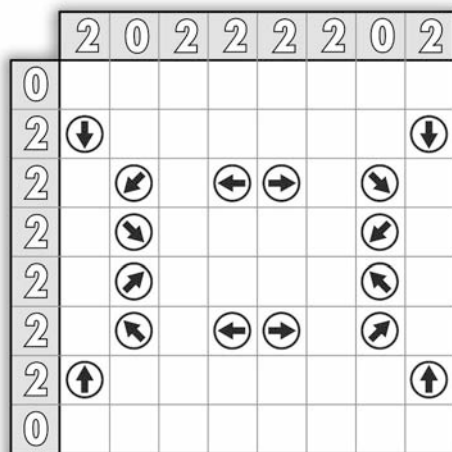
2 ☐ ☐ ☐ ☐ ☐ Easy



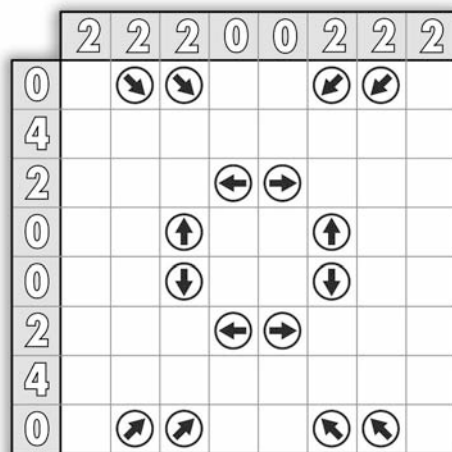
3 ☐ ☐ ☐ ☐ ☐ Easy



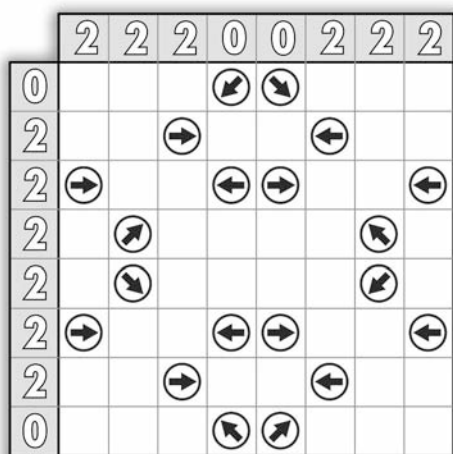
4 ☐ ☐ ☐ ☐ ☐ Easy



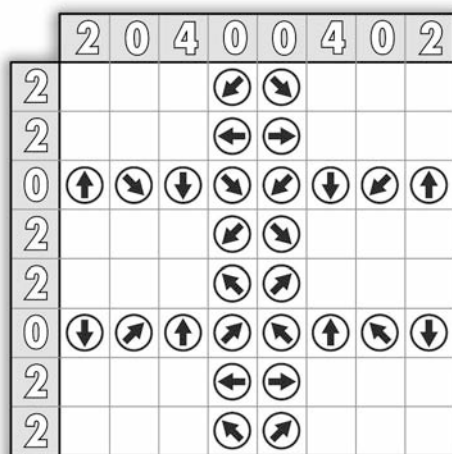
5 ☐ ☐ ☐ ☐ ☐ Easy



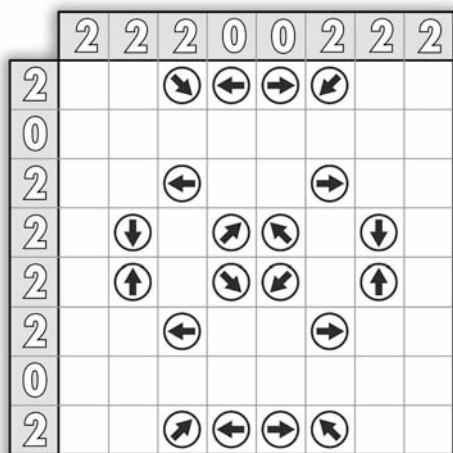
6 ☐ ☐ ☐ ☐ ☐ Easy



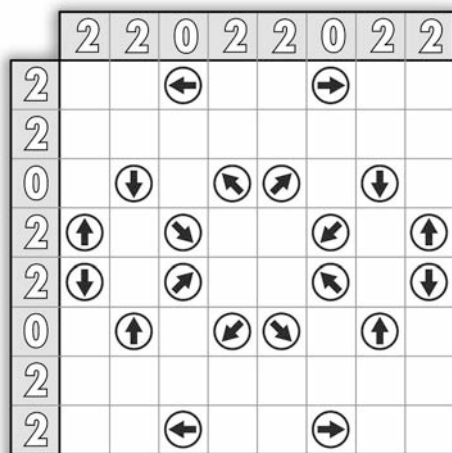
7 ☐ ☐ ☐ ☐ Easy



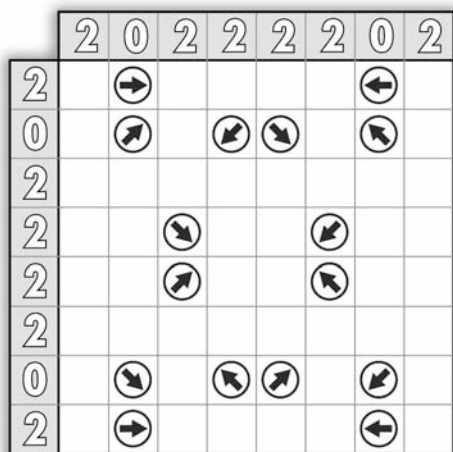
8 ☐ ☐ ☐ ☐ Easy



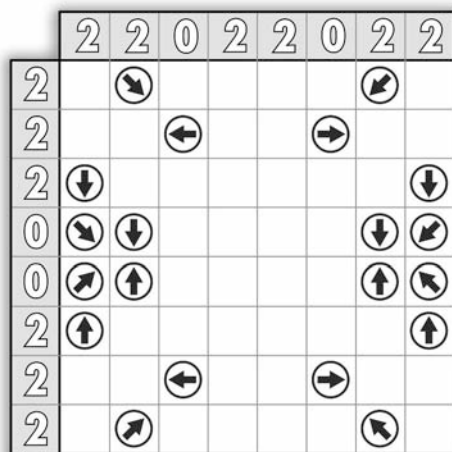
9 ☐ ☐ ☐ ☐ Easy



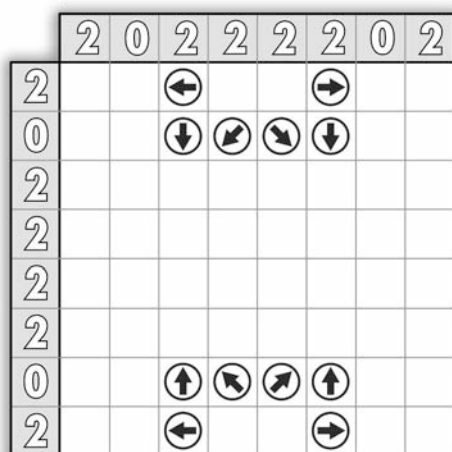
10 ☐ ☐ ☐ ☐ Easy



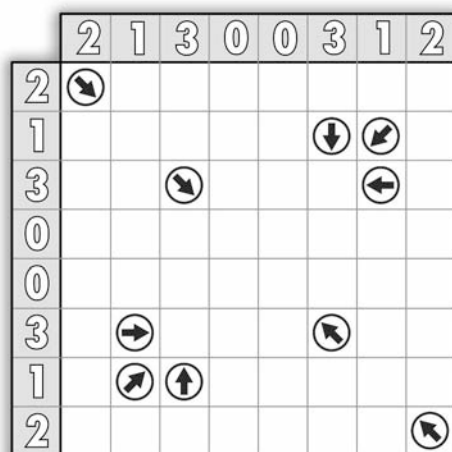
11 ☐ ☐ ☐ ☐ Easy



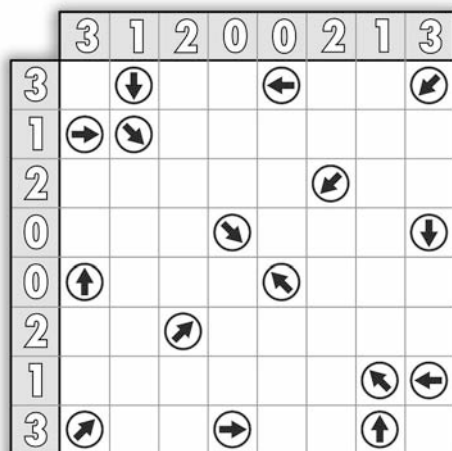
12 ☐ ☐ ☐ ☐ Easy



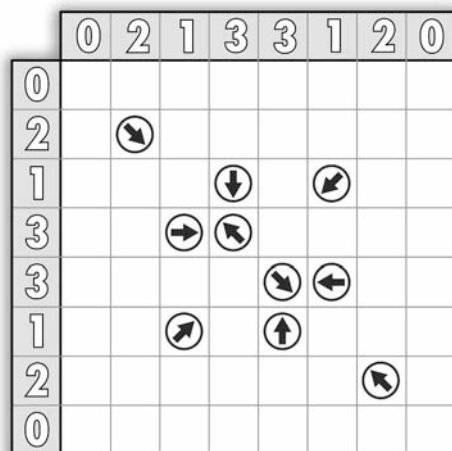
13 Easy



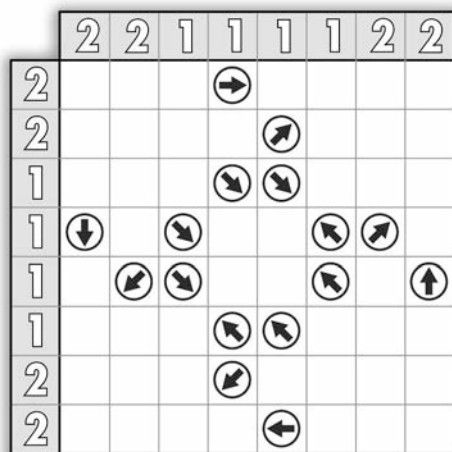
14 Easy



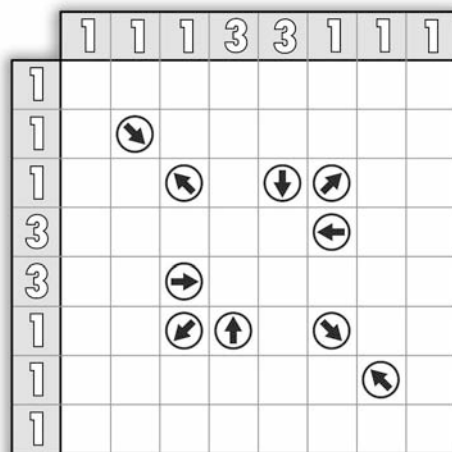
15 Easy



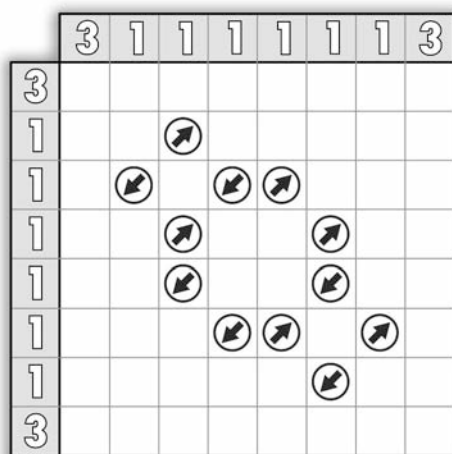
16 Easy



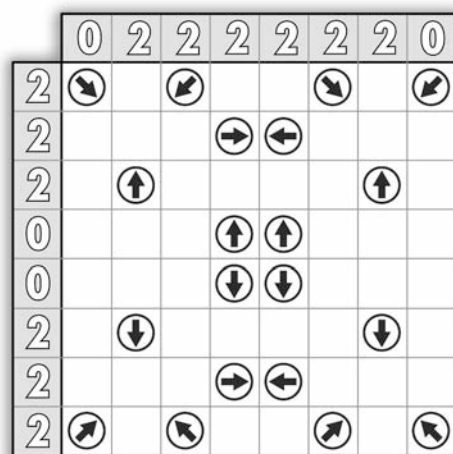
17 Easy



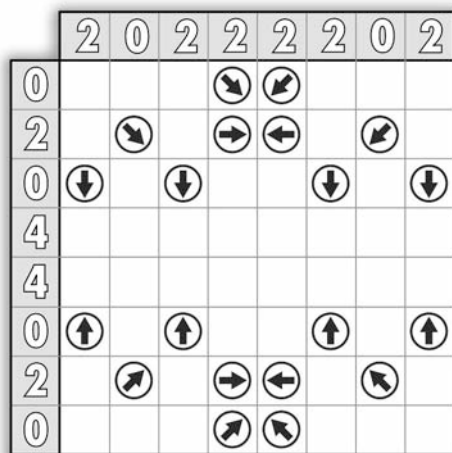
18 Easy



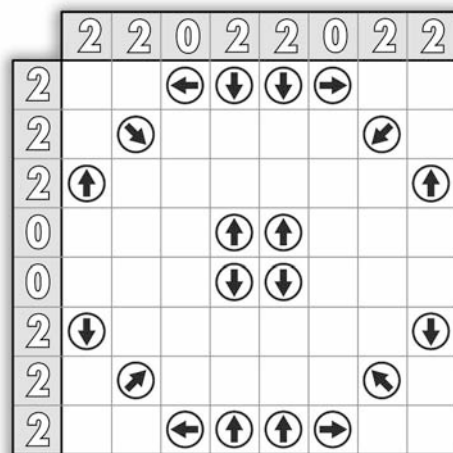
19 ☐ ☐ ☐ ☐ ☐ Easy



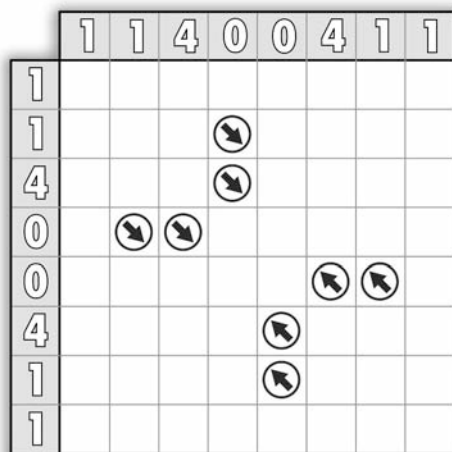
20 ☐ ☐ ☐ ☐ ☐ Easy



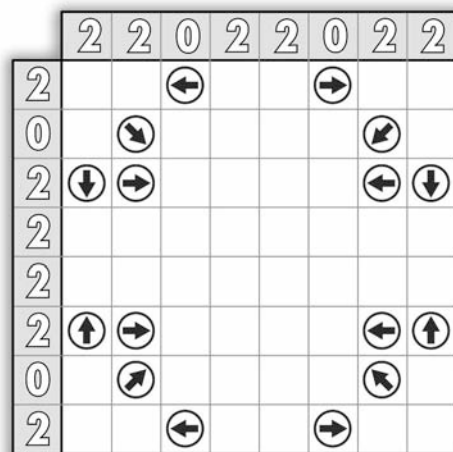
21 ☐ ☐ ☐ ☐ ☐ Easy



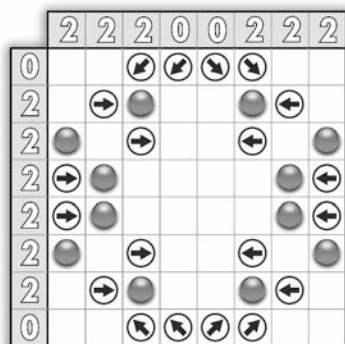
22 ☐ ☐ ☐ ☐ ☐ Easy



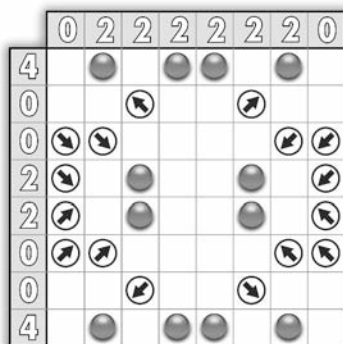
23 ☐ ☐ ☐ ☐ ☐ Easy



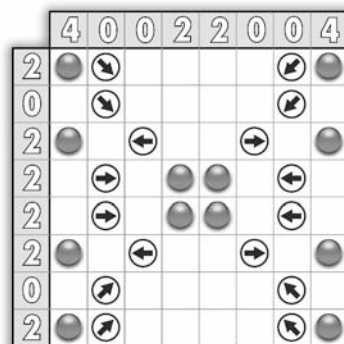
24 ☐ ☐ ☐ ☐ ☐ Easy



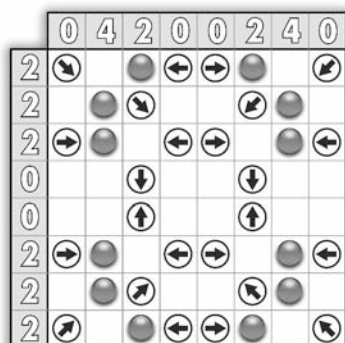
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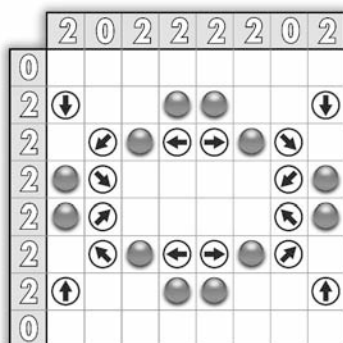
2 Easy



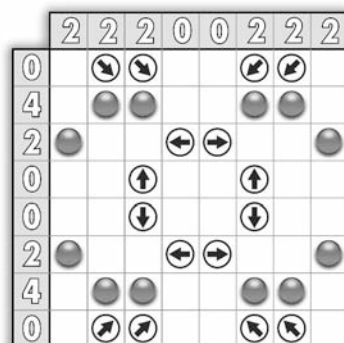
3 Easy



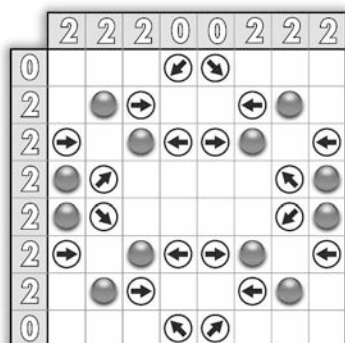
4 Easy



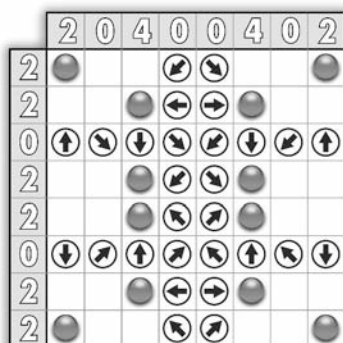
5 Easy



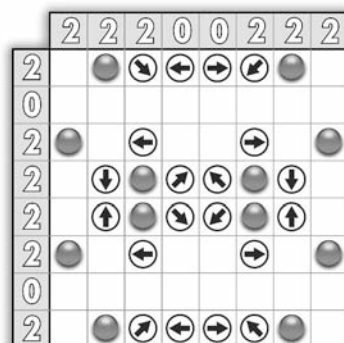
6 Easy



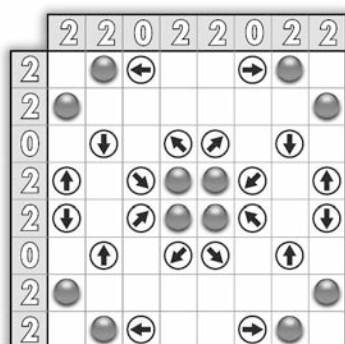
7 Easy



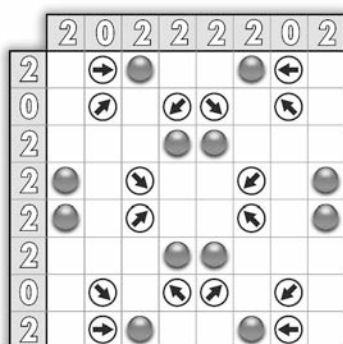
8 Easy



9 Easy



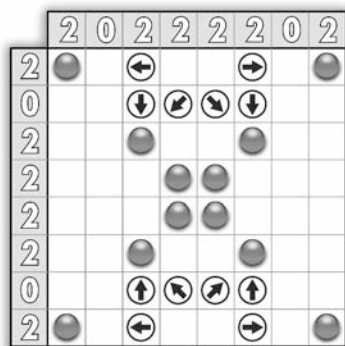
10 Easy



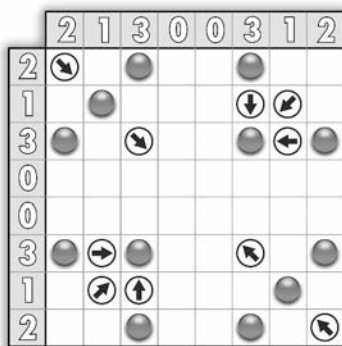
11 Easy



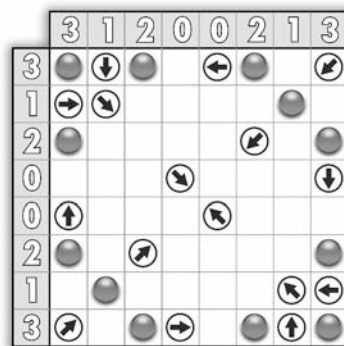
12 Easy



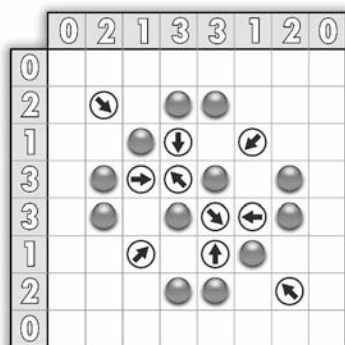
13 Easy



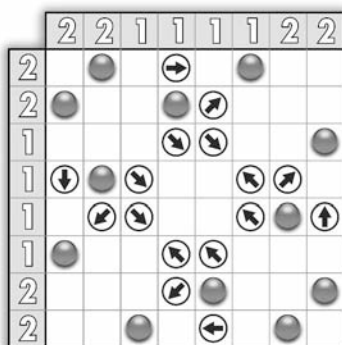
14 Easy



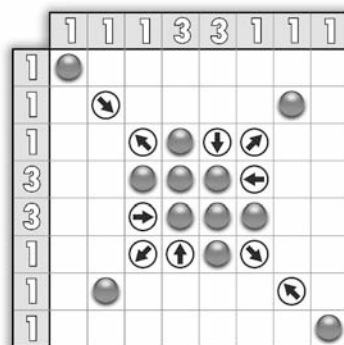
15 Easy



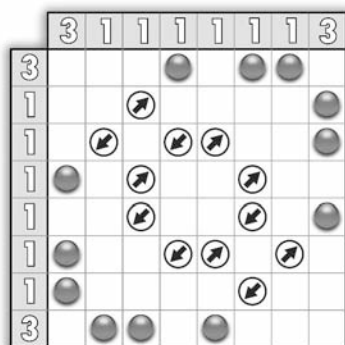
16 Easy



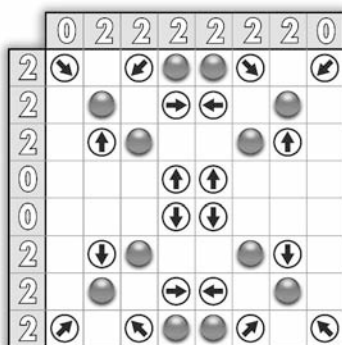
17 Easy



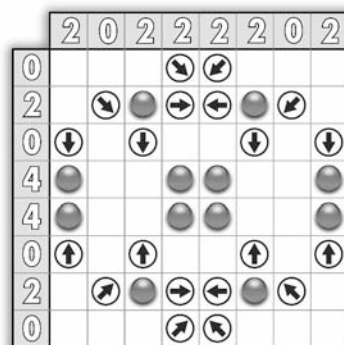
18 Easy



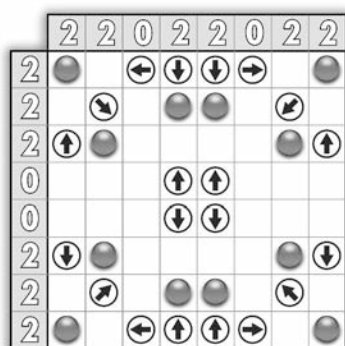
19 Easy



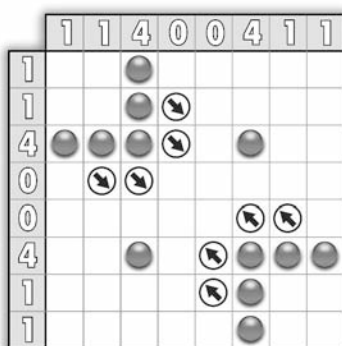
20 Easy



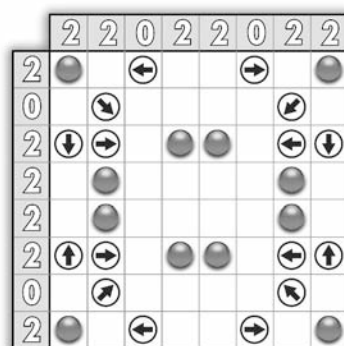
21 Easy



22 Easy

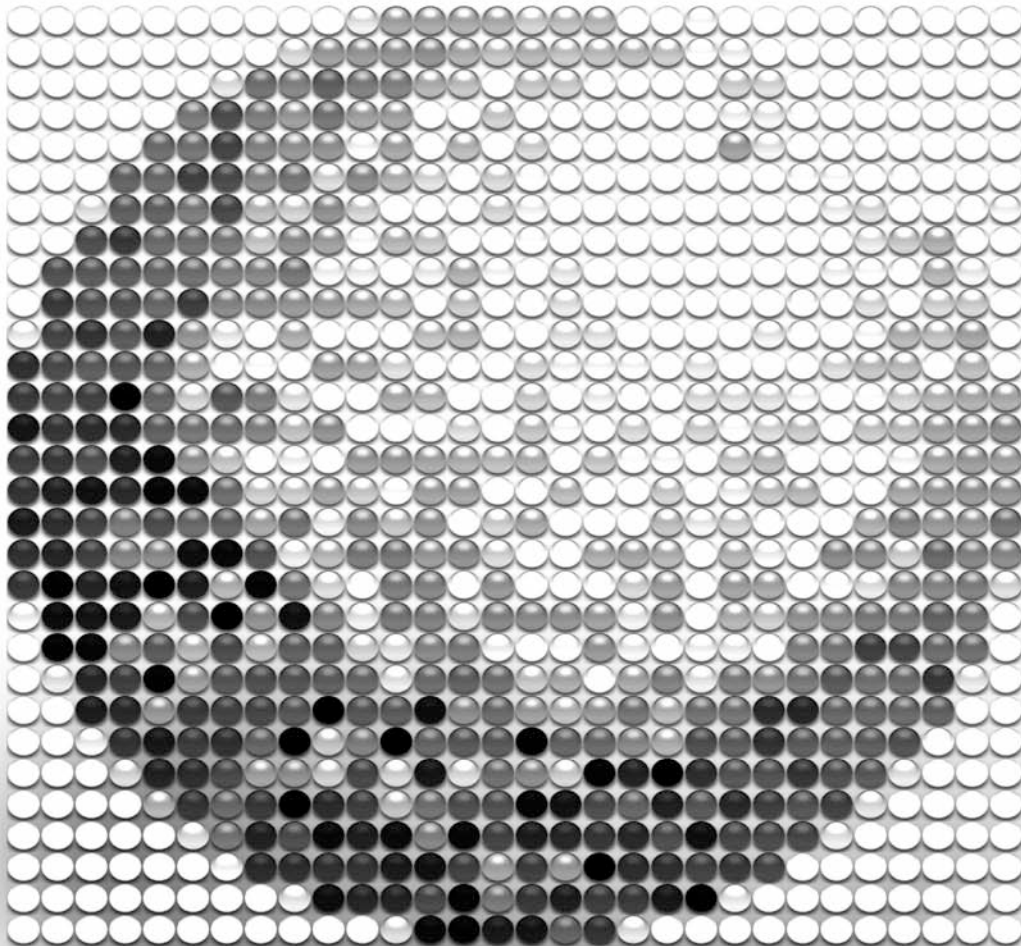


23 Easy



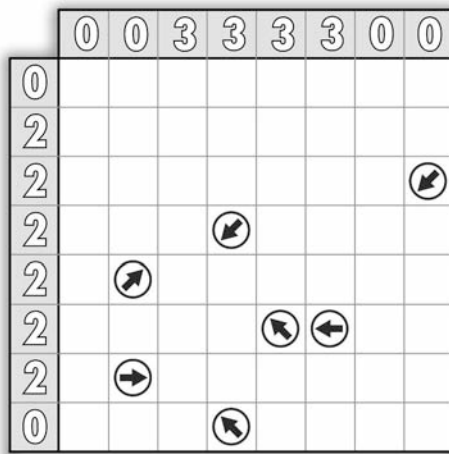
24 Easy

Marble Pattern Shinro

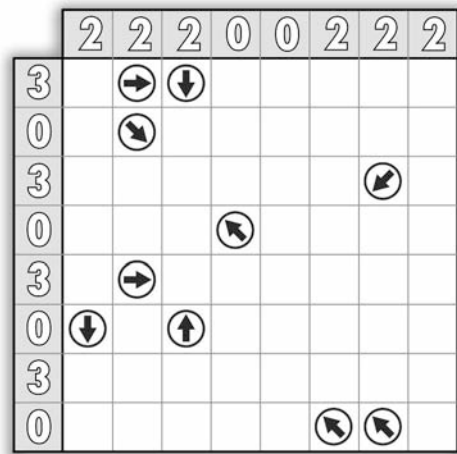


*"A good puzzle, it's a fair thing.
Nobody is lying. It's very clear,
and the problem depends just on
you."*

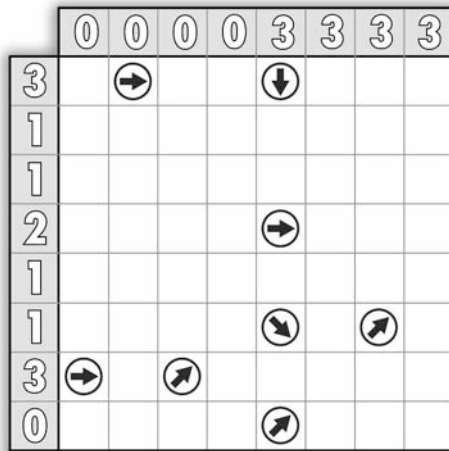
- Erno Rubik



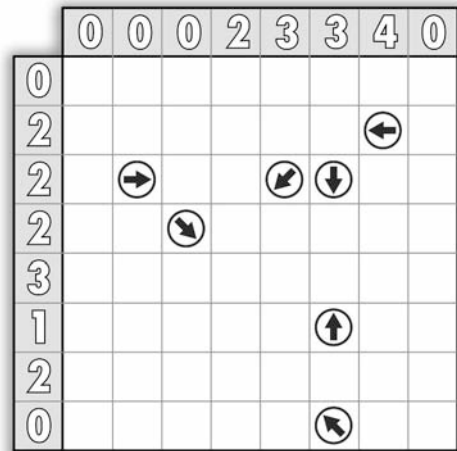
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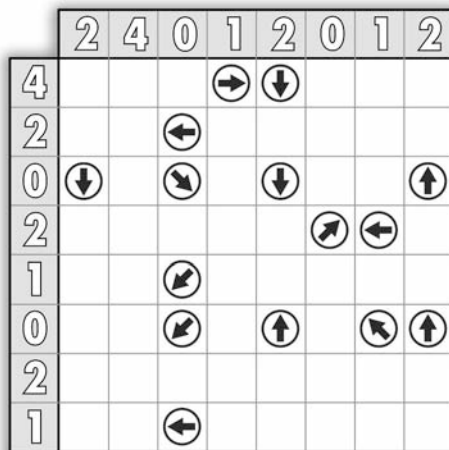
2 Easy



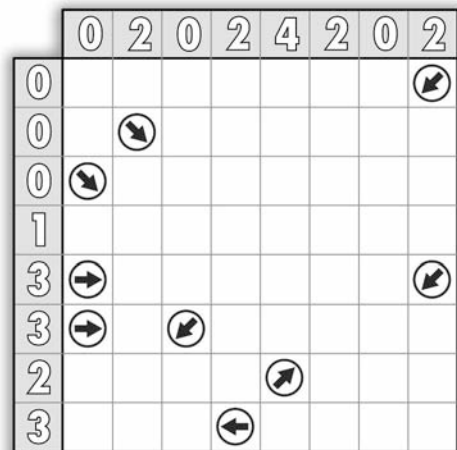
3 Easy



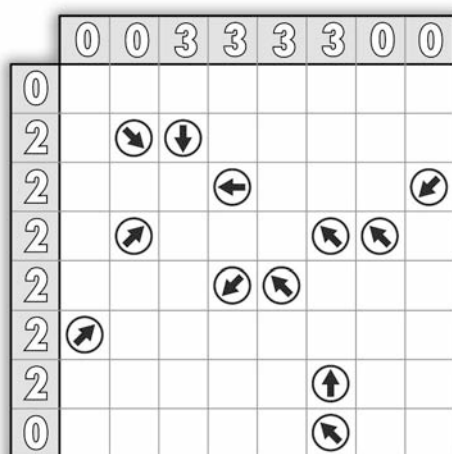
4 Easy



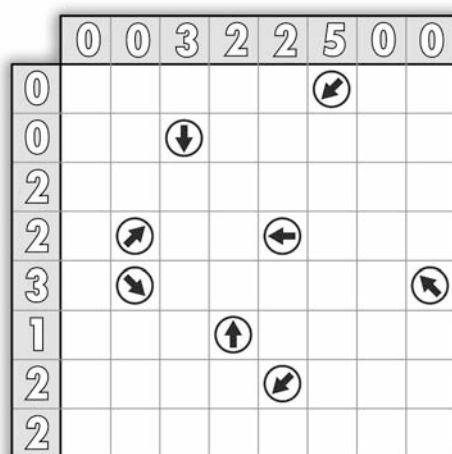
5 Easy



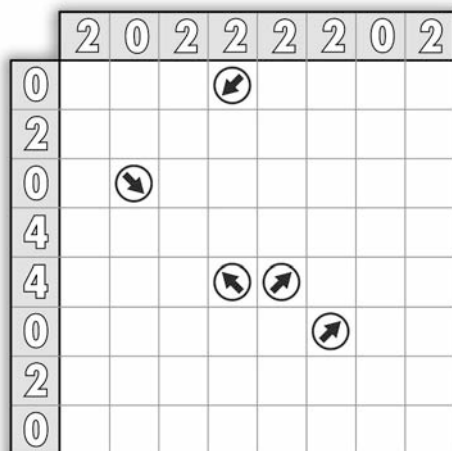
6 Easy



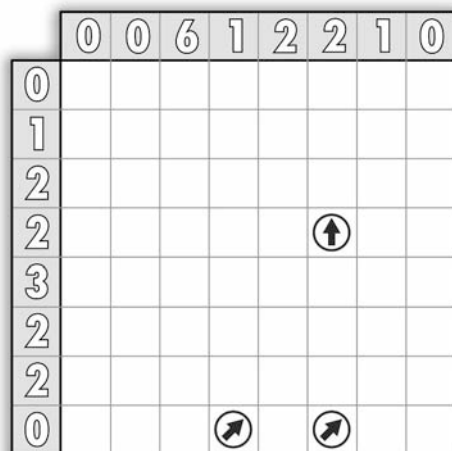
7 ☐ ☐ ☐ ☐ ☐ Easy



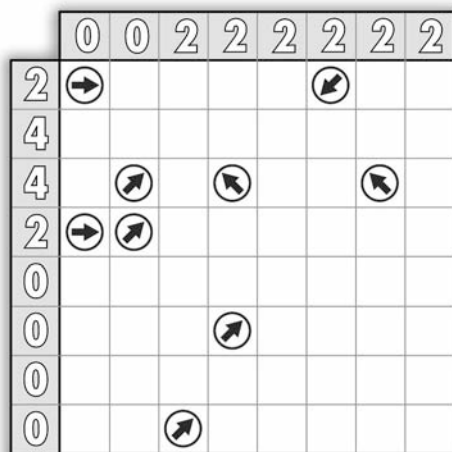
8 ☐ ☐ ☐ ☐ ☐ Easy



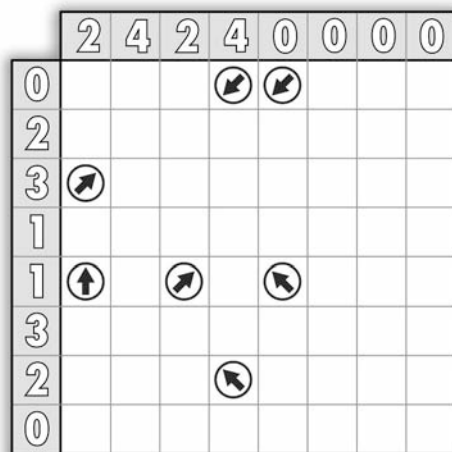
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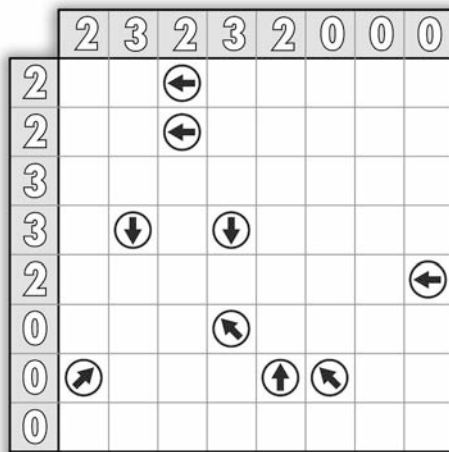
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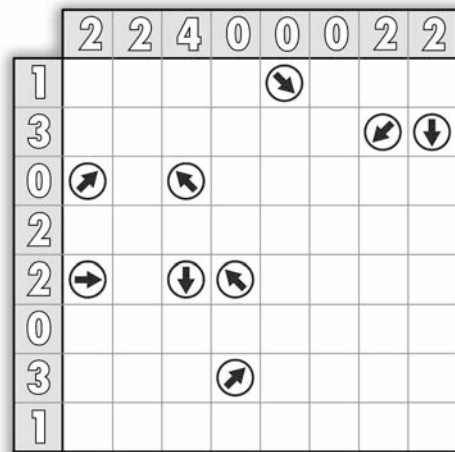
11 ☐ ☐ ☐ ☐ ☐ Easy



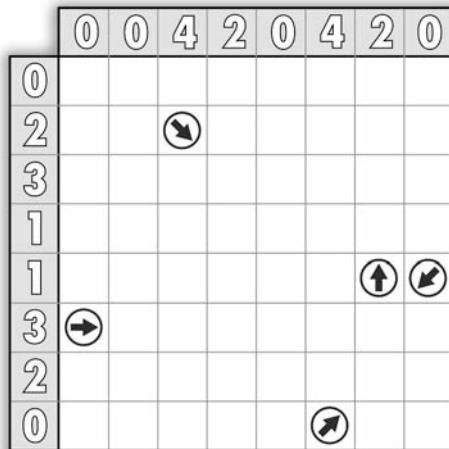
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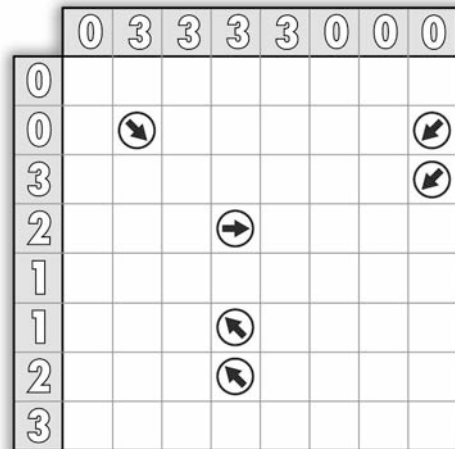
13 ☐ ☐ ☐ ☐ ☐ Easy



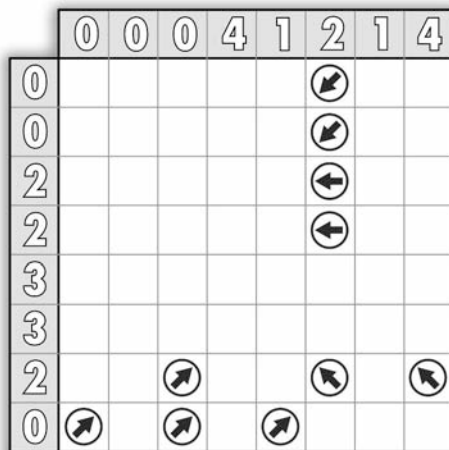
14 ☐ ☐ ☐ ☐ ☐ Easy



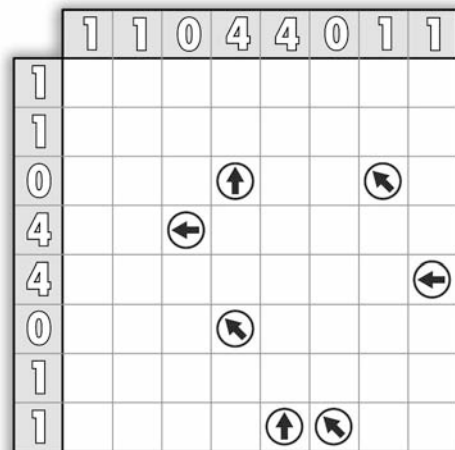
15 ☐ ☐ ☐ ☐ ☐ Easy



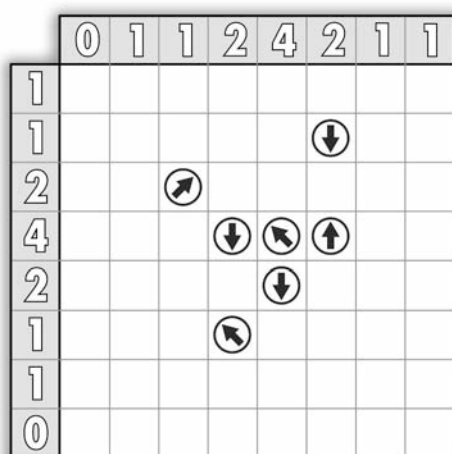
16 ☐ ☐ ☐ ☐ ☐ Easy



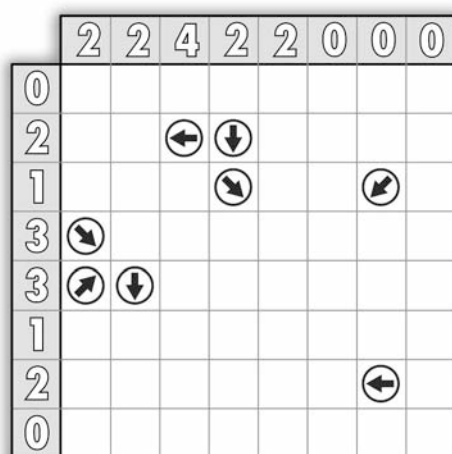
17 ☐ ☐ ☐ ☐ ☐ Easy



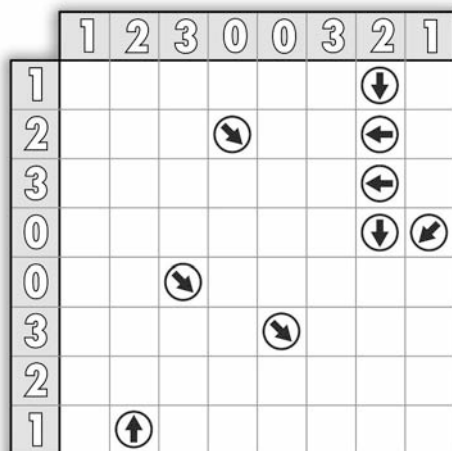
18 ☐ ☐ ☐ ☐ ☐ Easy



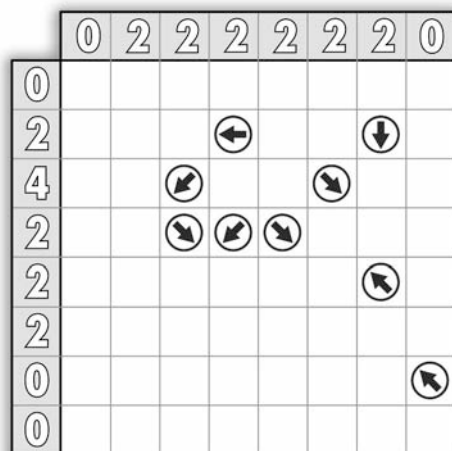
19 ☐ ☐ ☐ ☐ ☐ Easy



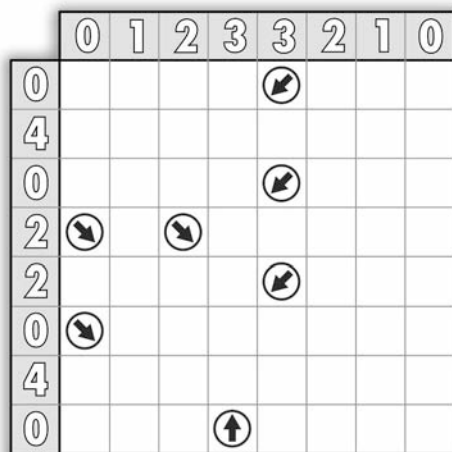
20 ☐ ☐ ☐ ☐ ☐ Easy



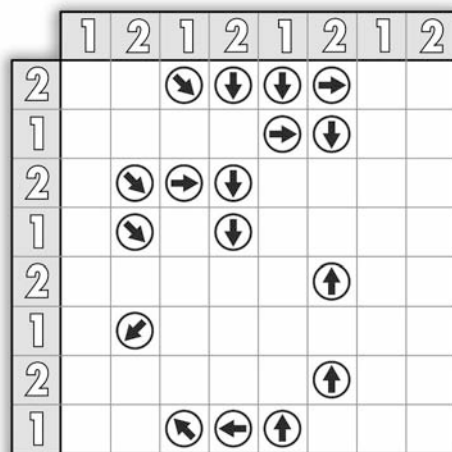
21 ☐ ☐ ☐ ☐ ☐ Easy



22 ☐ ☐ ☐ ☐ ☐ Easy

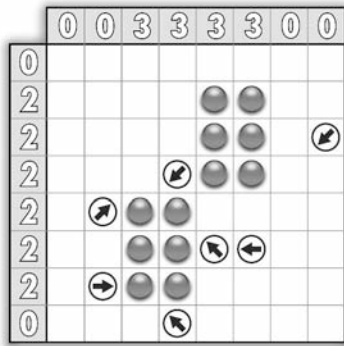


23 ☐ ☐ ☐ ☐ ☐ Easy

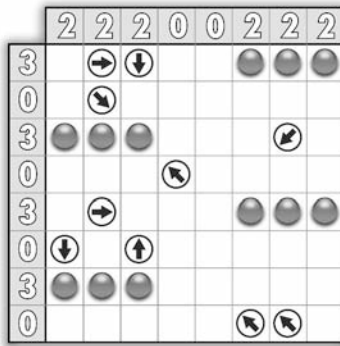


24 ☐ ☐ ☐ ☐ ☐ Easy

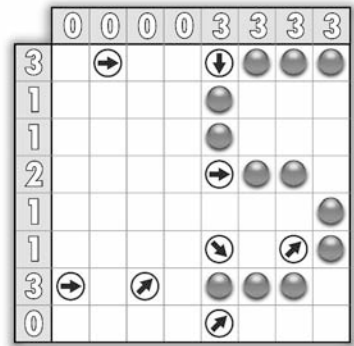
Marble Pattern Skins: Solutions



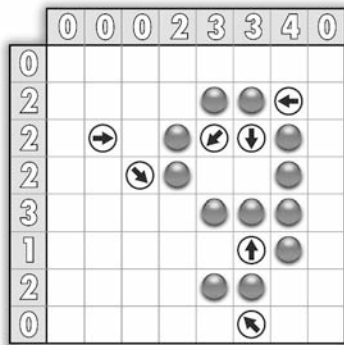
1 Easy



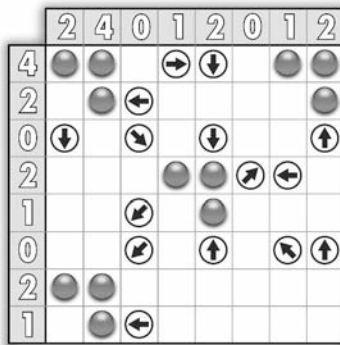
2 Easy



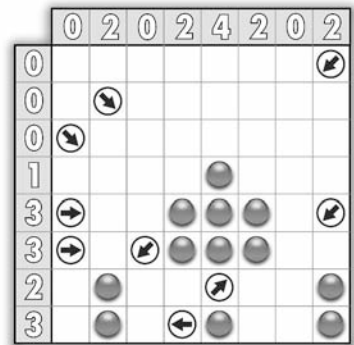
3 Easy



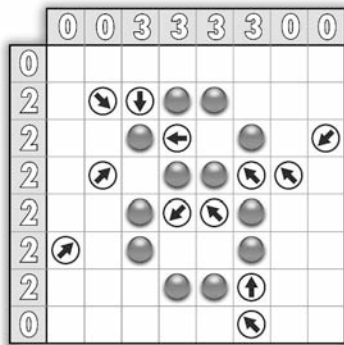
4 Easy



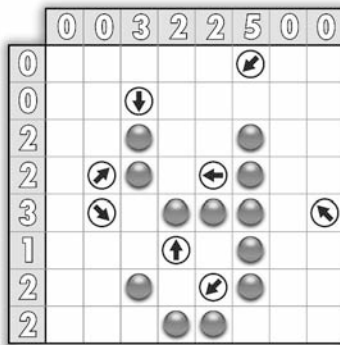
5 Easy



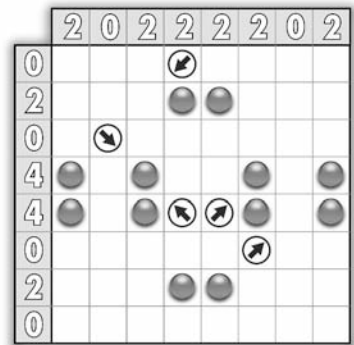
6 Easy



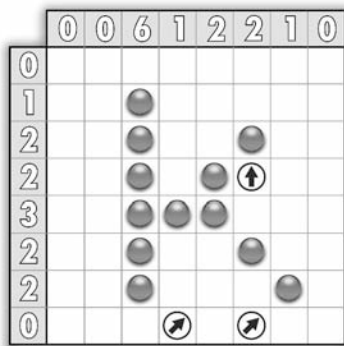
7 Easy



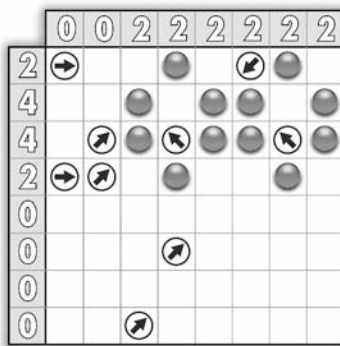
8 Easy



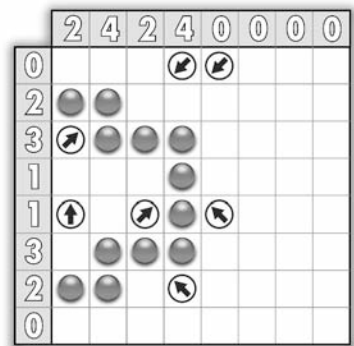
9 Easy



10 Easy

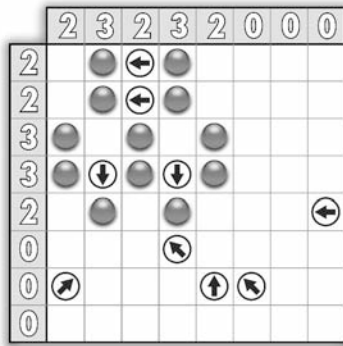


11 Easy

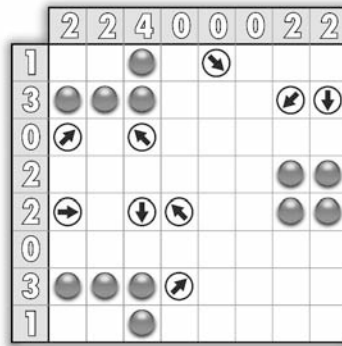


12 Easy

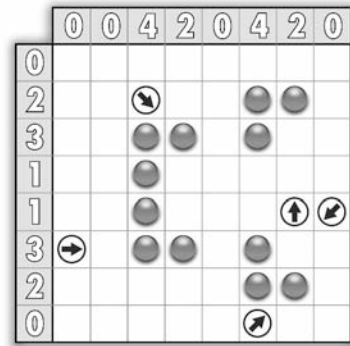
Marble Pattern Shiro: Solutions



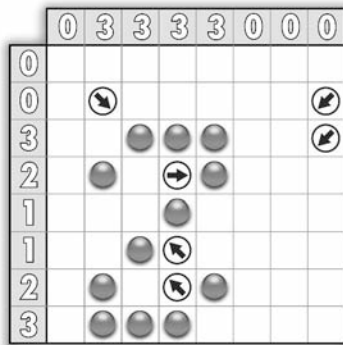
13 ☐ ☐ ☐ ☐ ☐ Easy



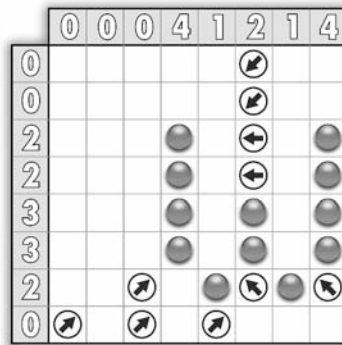
14 ☐ ☐ ☐ ☐ ☐ Easy



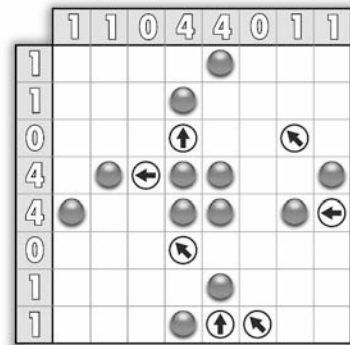
15 ☐ ☐ ☐ ☐ ☐ Easy



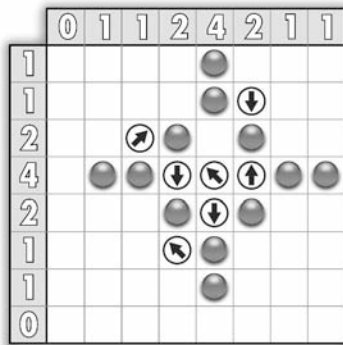
16 ☐ ☐ ☐ ☐ ☐ Easy



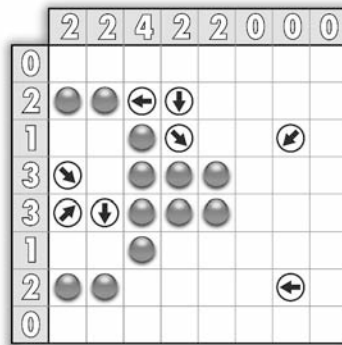
17 ☐ ☐ ☐ ☐ ☐ Easy



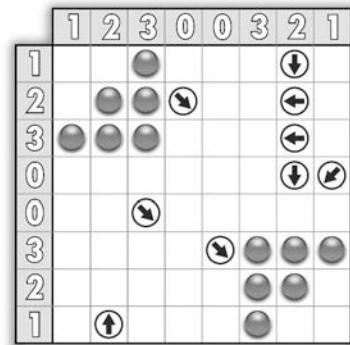
18 ☐ ☐ ☐ ☐ ☐ Easy



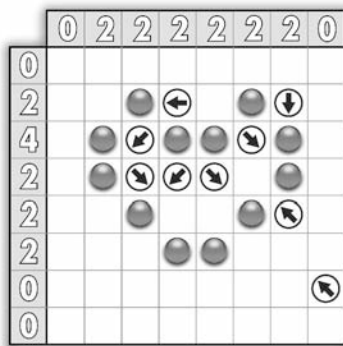
19 ☐ ☐ ☐ ☐ ☐ Easy



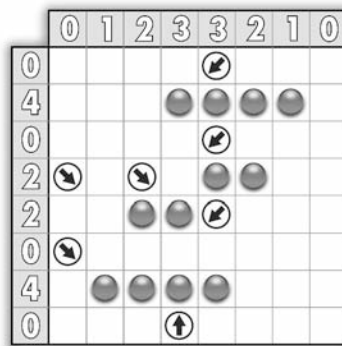
20 ☐ ☐ ☐ ☐ ☐ Easy



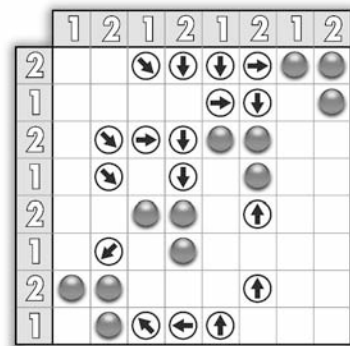
21 ☐ ☐ ☐ ☐ ☐ Easy



22 ☐ ☐ ☐ ☐ ☐ Easy

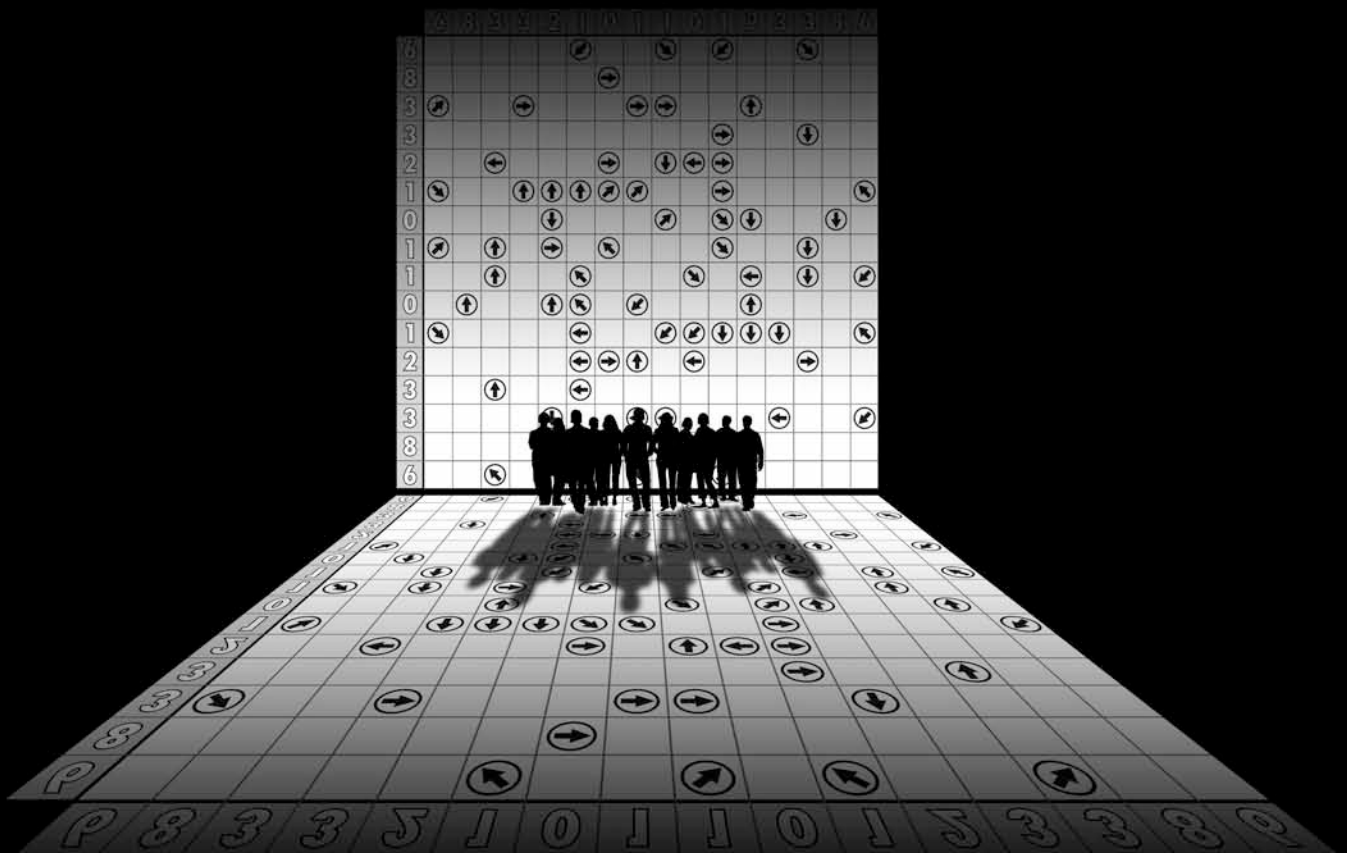


23 ☐ ☐ ☐ ☐ ☐ Easy

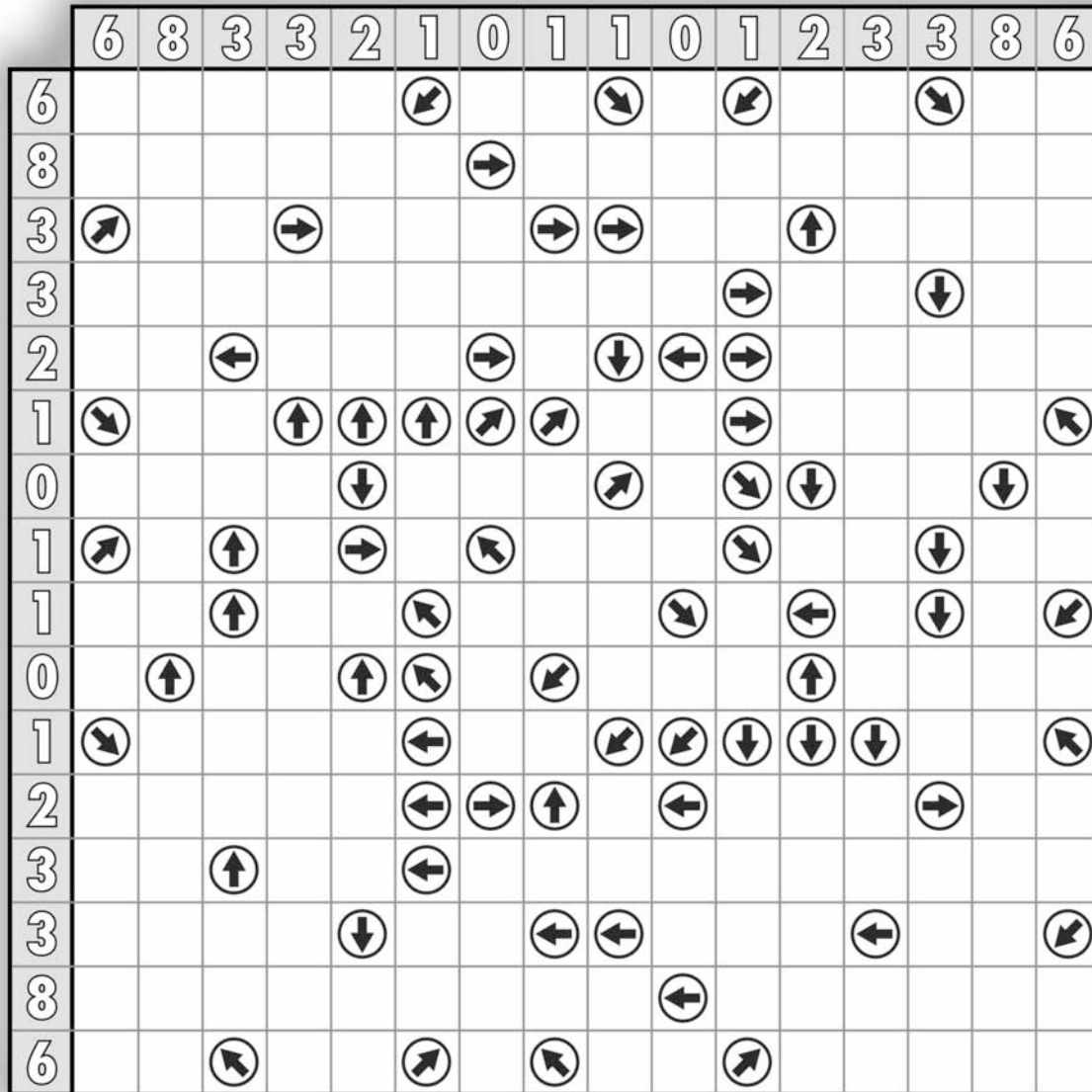


24 ☐ ☐ ☐ ☐ ☐ Easy

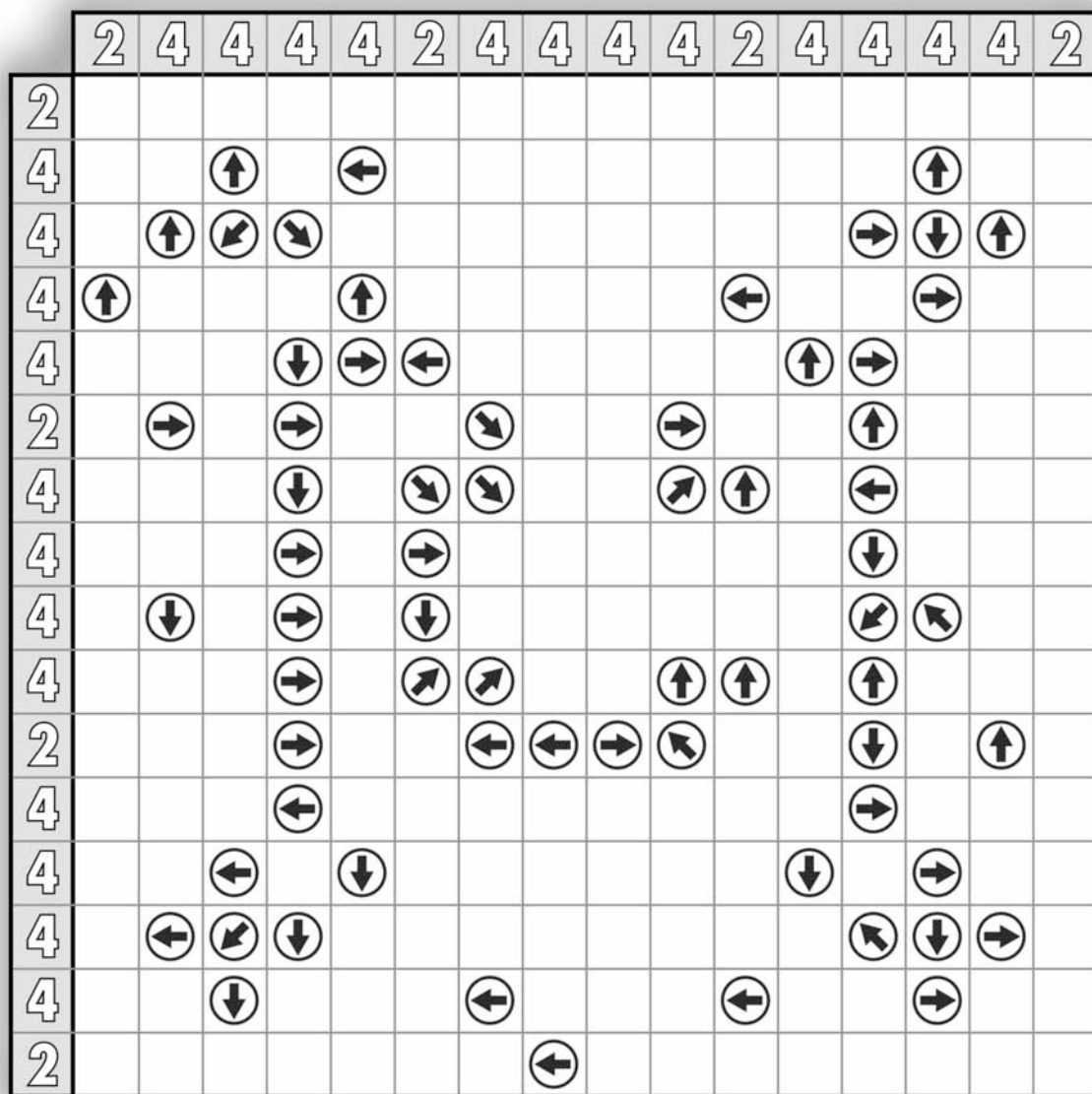
Mega Shinro



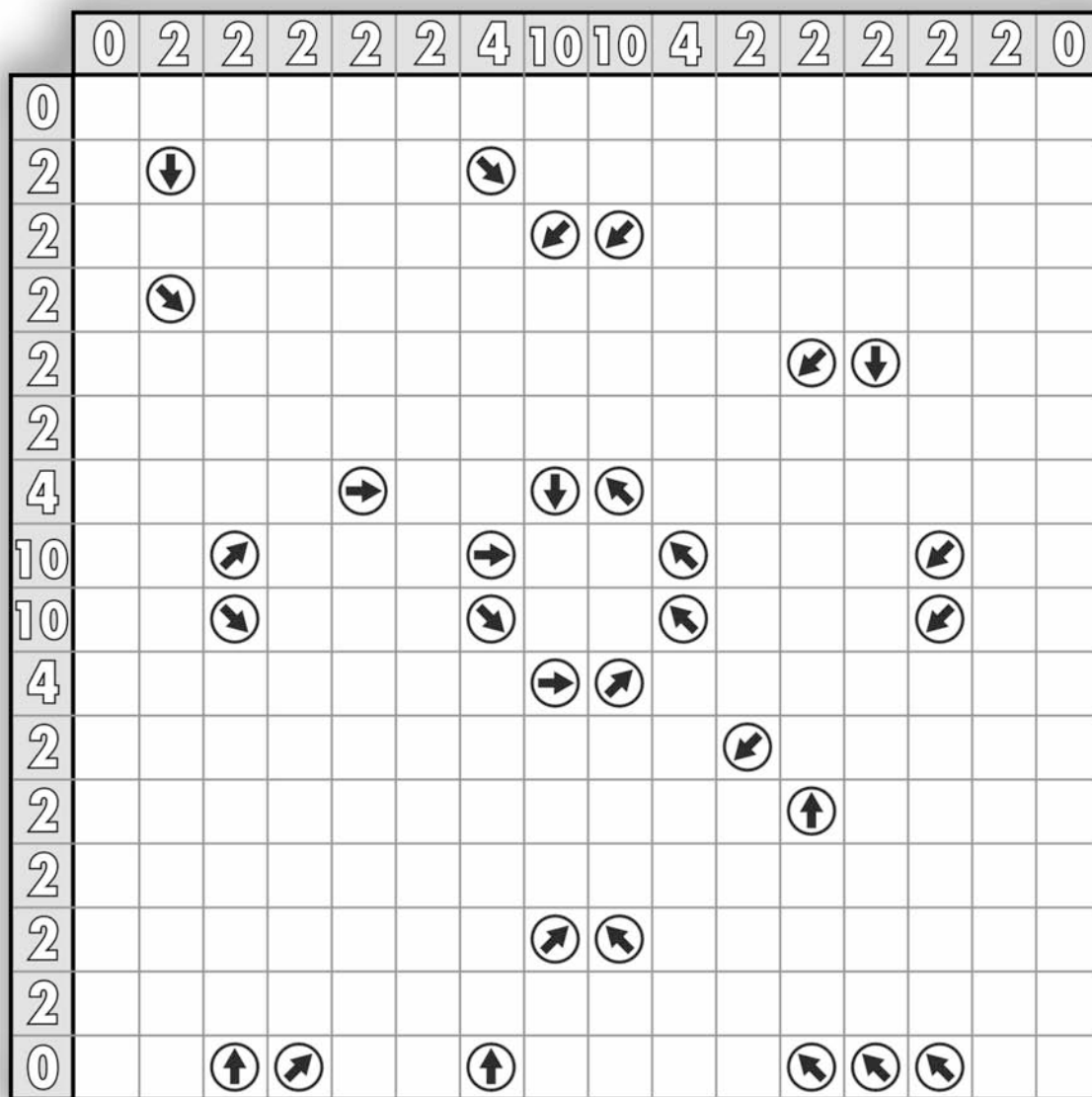
*"Who in the world am I?
Ah, that's the great puzzle."
- Lewis Carroll*



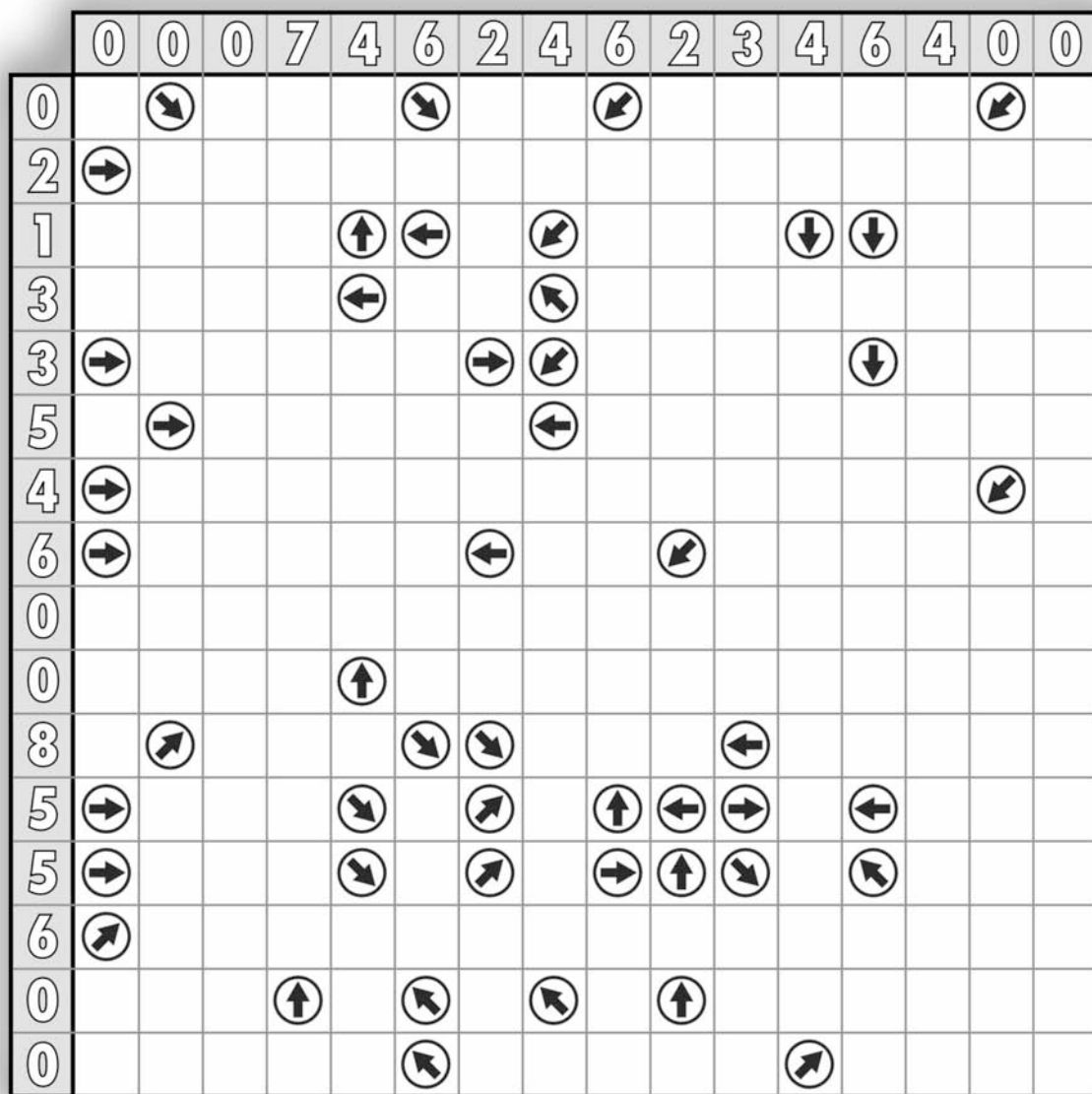
1 ☐ ☐ ☐ ☐ Easy



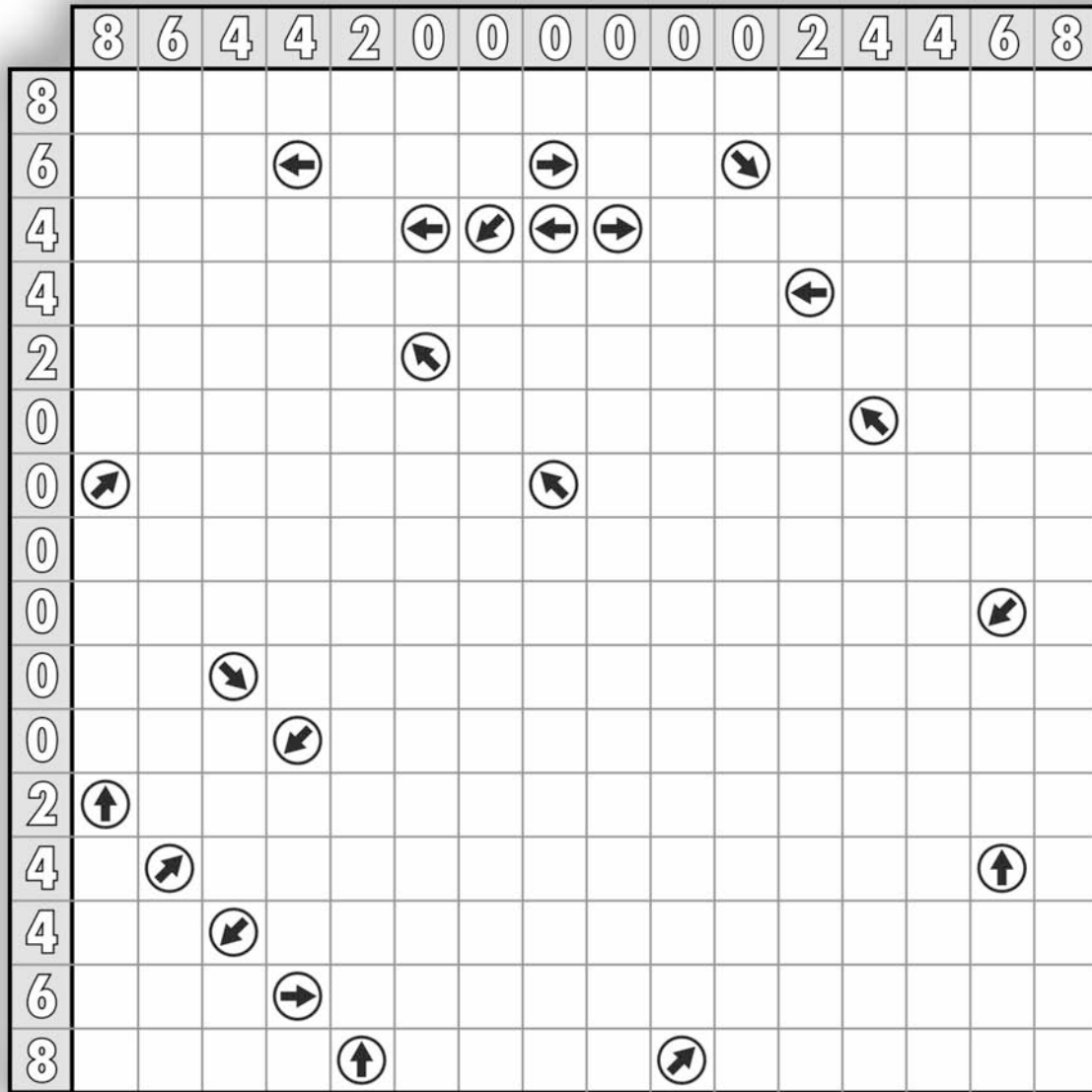
2 ☐ ☐ ☐ ☐ *Easy*



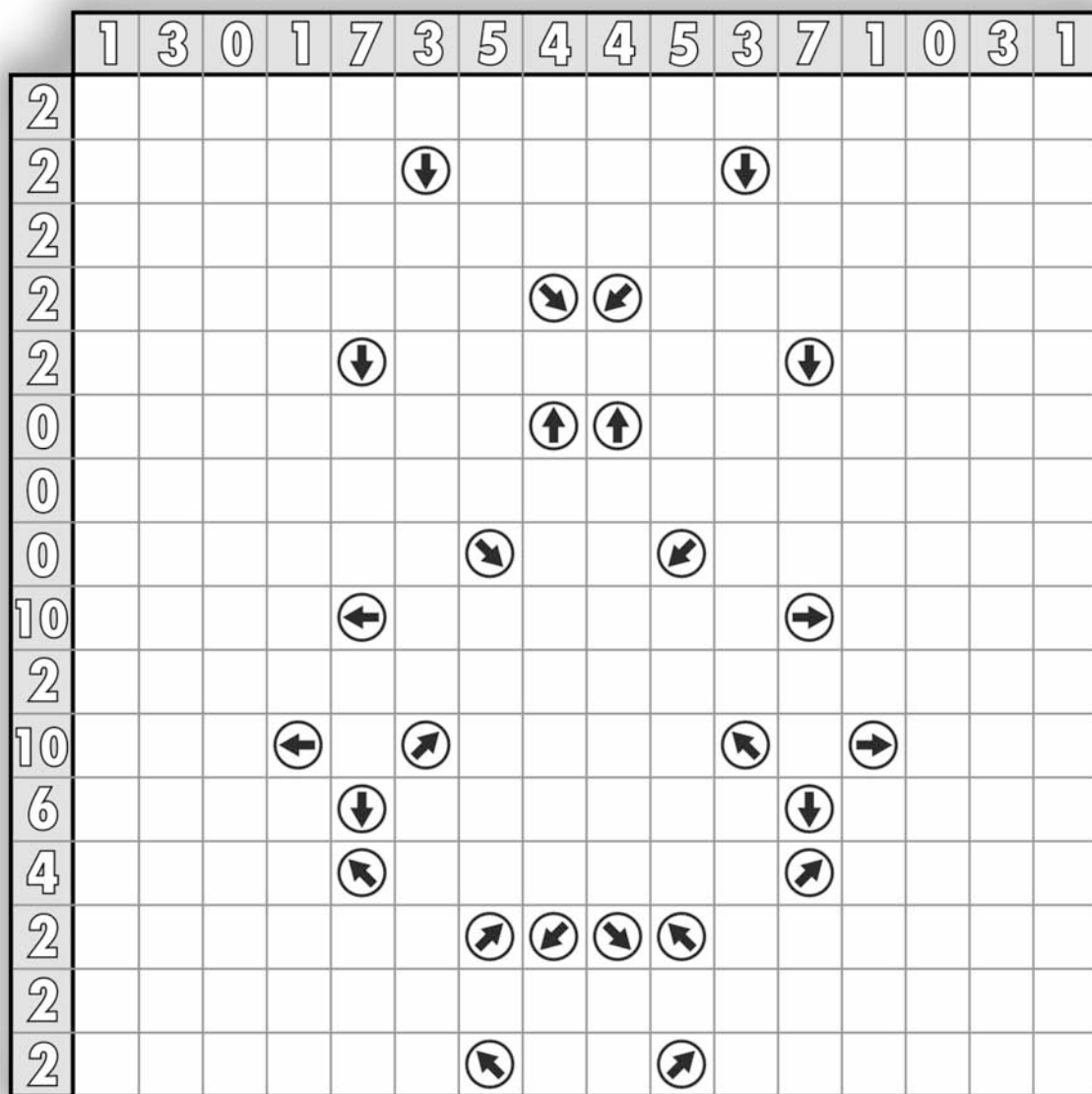
3 ☐ ☐ ☐ ☐ Easy



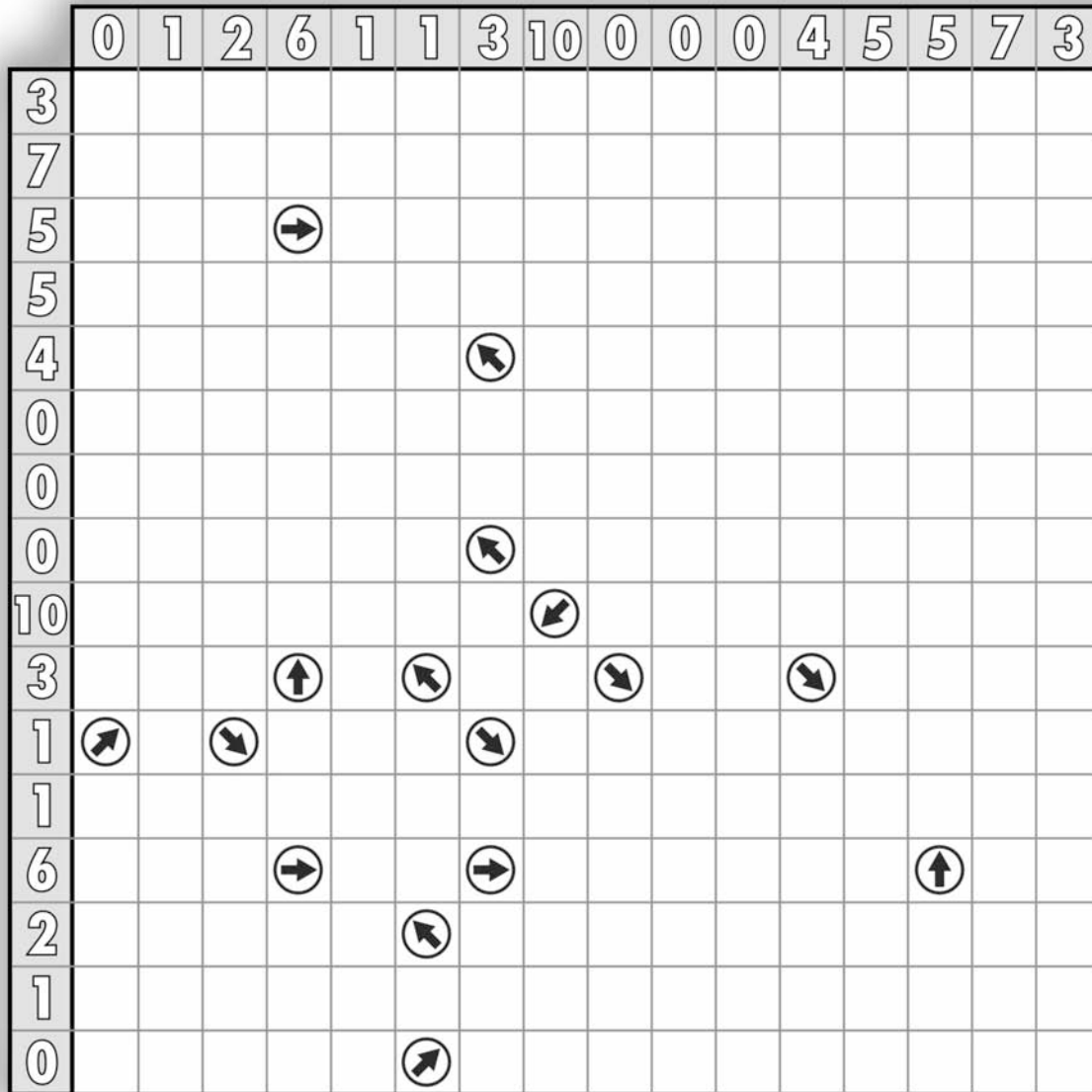
4 ☐ ☐ ☐ ☐ *Easy*



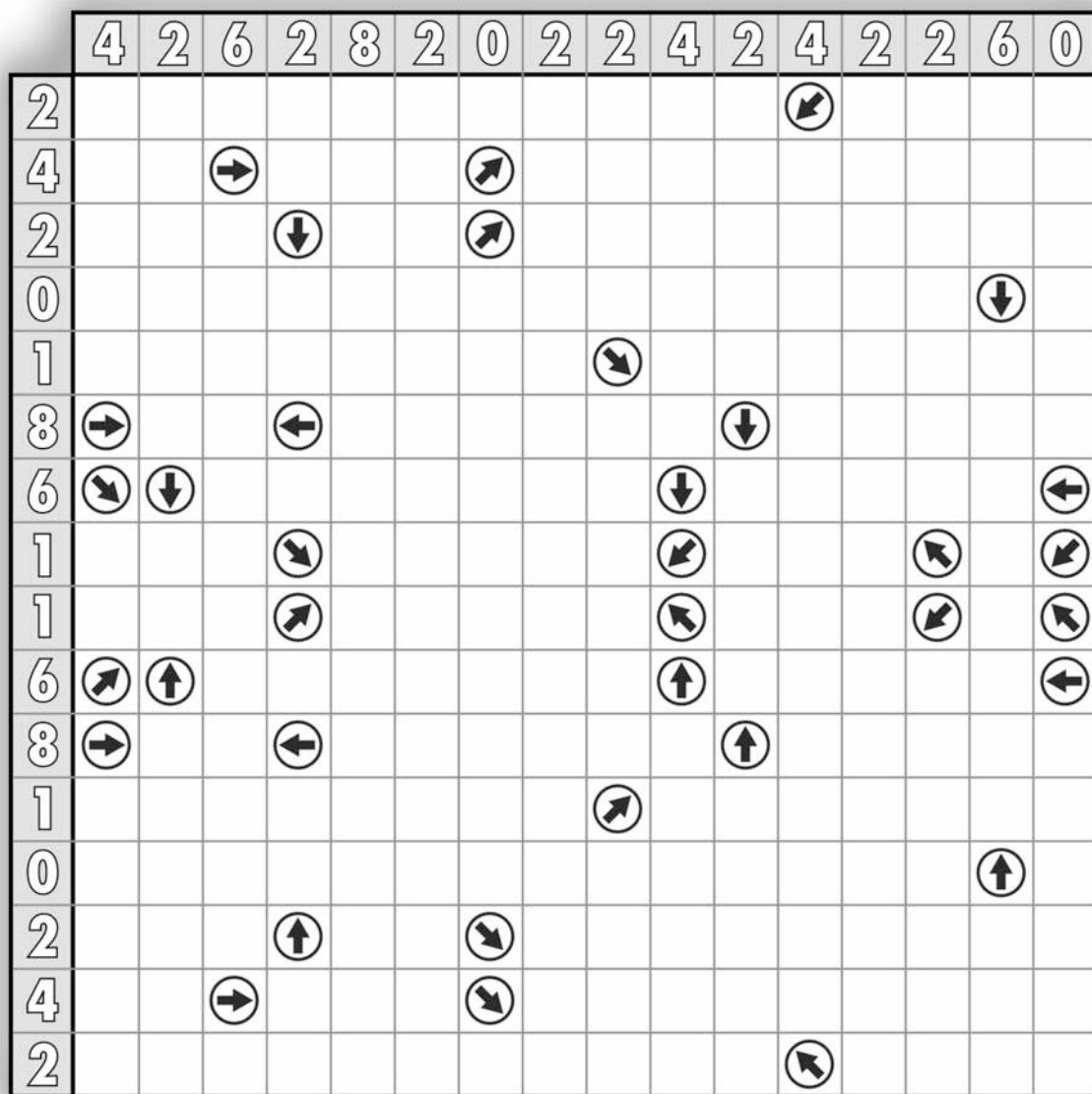
5 ☐ ☐ ☐ ☐ Easy



6 ☐ ☐ ☐ *Easy*

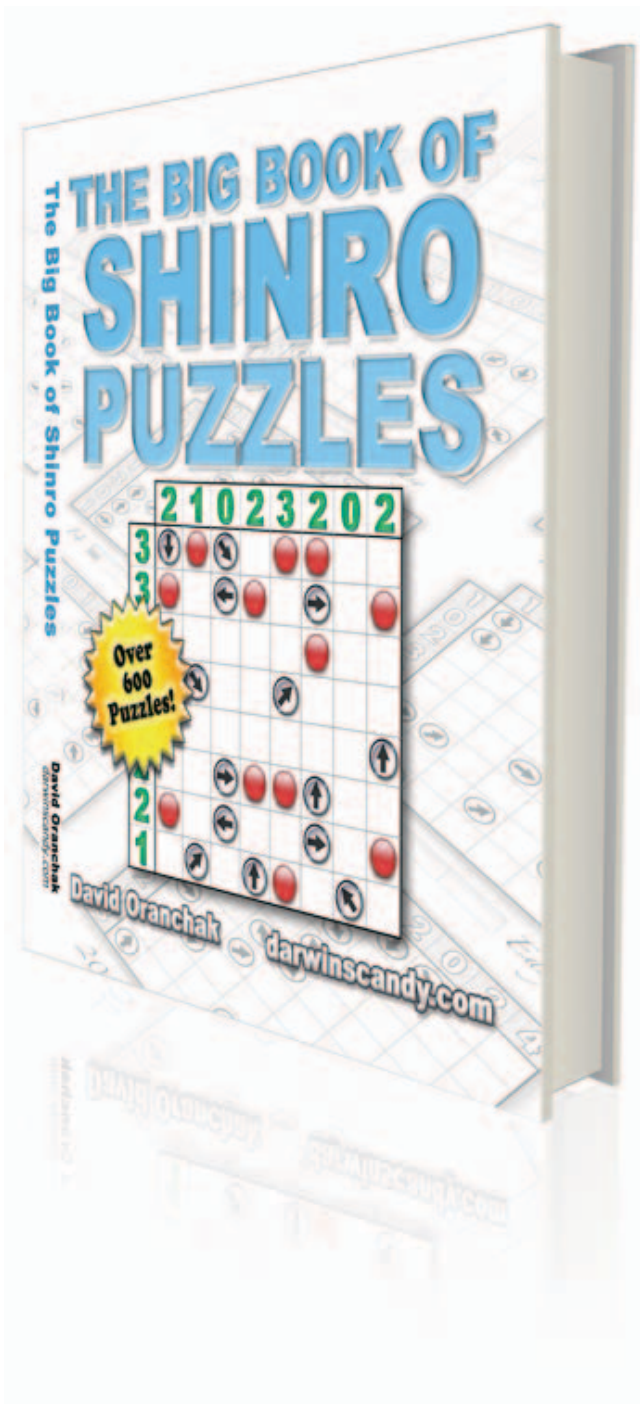


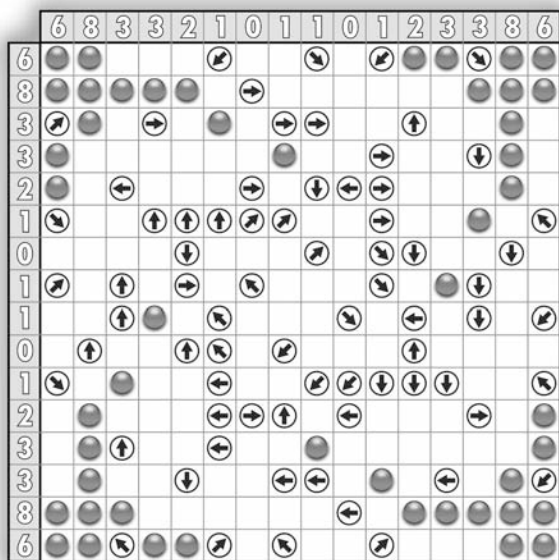
7 ☐ ☐ ☐ *Easy*



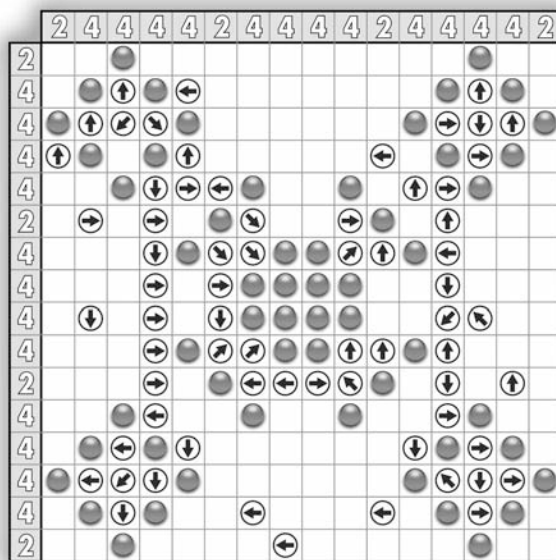
8 ☐ ☐ ☐ *Easy*

Want more puzzles? Get **all 616 of them** in the full book, available to buy at PlayShinro.com!

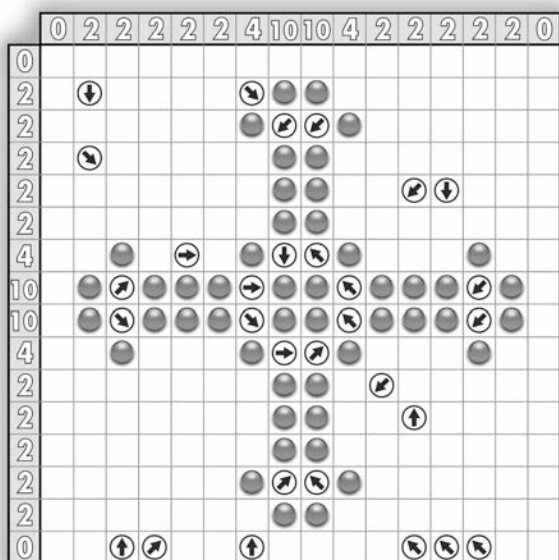




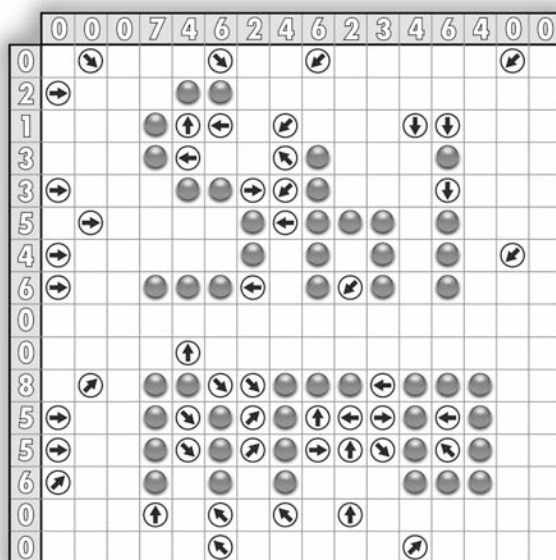
1 Easy



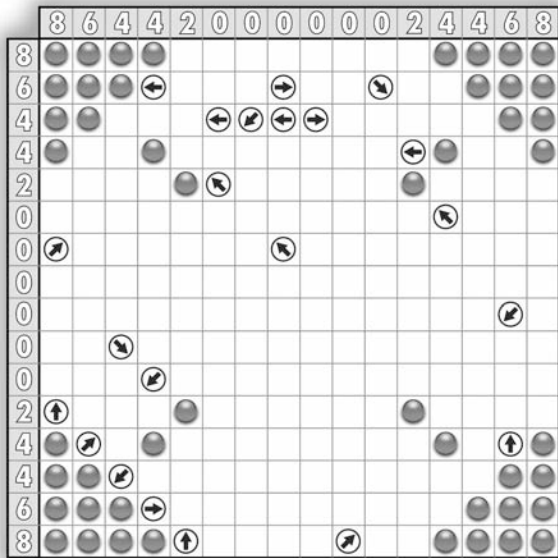
2 Easy



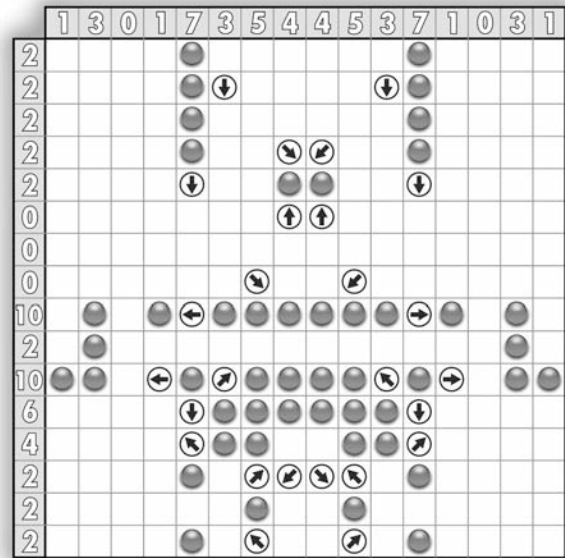
3 Easy



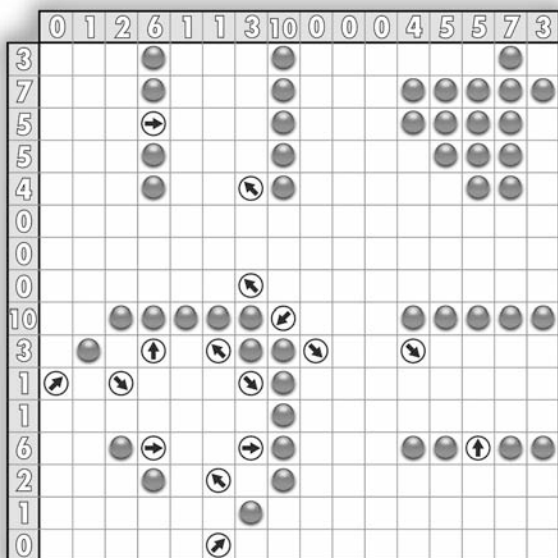
4 Easy



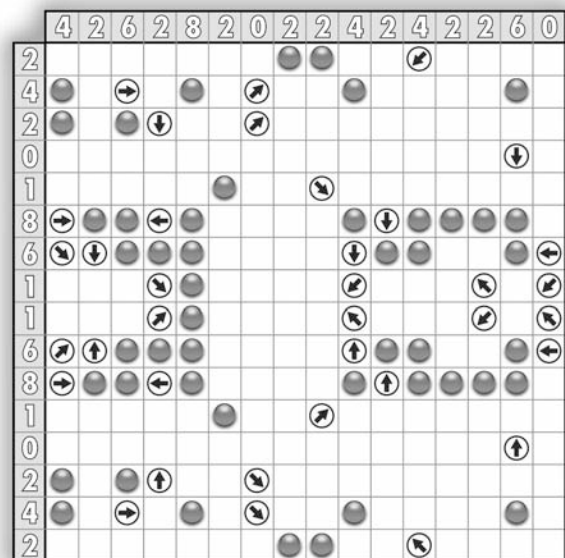
5 Easy



6 Easy



7 Easy



8 Easy