

THE MAGICAL SQUARES

APPETIZERS

NEERU DAS



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please contact:

BLUEROSE PUBLISHERS
www.BlueRoseONE.com
info@bluerosepublishers.com
+91 8882 898 898
+4407342408967

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AUTHORS NOTE

One imagines the outcome to be Magical, once the grid is completed but the fact remains – it does not!

The similarity to the ancient method ends with JUST the name of all these three books THE MAGICAL SQUARES OF STARTERS, APPETIZERS and TREATS. Though all vertical, horizontal lines and each regular / irregular square / rectangles, totals to 45 but the diagonals do not add up to the same number – and here lies one of the main difference. To understand this very difference, a concise concept has been given for the attempter's privilege.

MAGIC SQUARES - Originally contained integers arranged in an equal number of rows and columns so that the sum of the integers in any row or diagonal is the same, e.g.?

10	3	8
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5	7	9
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6	11	4
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During ancient times, they were frequently found in Egypt and India. Engraved on stone or metal and worn as Talismans. The belief being that the **Magic Squares** had astrological and divine qualities. Their usage ensured longevity and prevention of diseases.

The earliest existing proof in India, is that of a magic square of order 4, which has been found on an inscription in **Khajuraho**, dating from the 11th cent. Further, the **Kuber-Kolam** is a floor painting still used in India, which is in the form of a magic square of order 3. It is essentially the same as the **Lo Shu square**, but with 19 added to each number, giving it a magic constant of 72.

THE BUDUH SQUARE - According to Islamic literature the first appearance of 'Magic Square' occurs in the **Jabirean Corpus** – a group of writings attributed to **Jabir Ibn Hayyan** – an Arab alchemist known as 'Geber' and have been thought to have been compiled at the end of the 8th or early 9th C. AD. These squares consisted of nine cells with the numbers 1-9 arranged with 5 in the center so that the contents of each row, column and

their two diagonals added up to 15. The numbers were written in the **ABJAD** letter-numerals and because the 4 corners of this square contained the letters BA, DAL, WAW / U, and HA, this particular square came to be known as '**The BUDUH SQUARE**'.

In subsequent years writers developed a variety of methods for forming larger 'Magic Squares', in which no numeric was repeated and the sums of each row and each column and the two diagonals were the same. 'Magic squares' specially with cells 4x4 or 6x6 or 7x7 were particularly more popular, while the 10x10 squares started being produced only by the 13th cent. AD.

LATIN SQUARE - Similar to that of MAGIC SQUARE is a LATIN SQUARE. It is quite a similar square having an array of numbers, letters and symbols etc. in distinction from a Magic square, again having no repetition. It is normally used in statistical analysis. Similarly the concept of Latin squares has also been known since medieval times too.

THE SUDOKU CONCEPT - In Japanese, 'SU' means number and 'DOKU' refers to a single place on the puzzle table, that each number can fit into. Sometimes it is compared to a 'number solitaire'. It is said that **any solution to a Sudoku puzzle is a Latin square**. SUDOKU imposes an added restriction that, 3x3 sub-groups must also contain the digits 1-9 (in the standard version). So the Sudoku concept was not invented in Japan as many people believe, but its name was.

Be it '**Magic Square** or **Latin square** or **Lo Shu Square** – it doesn't matter, what matters is - **the rediscovered power of the mind**.

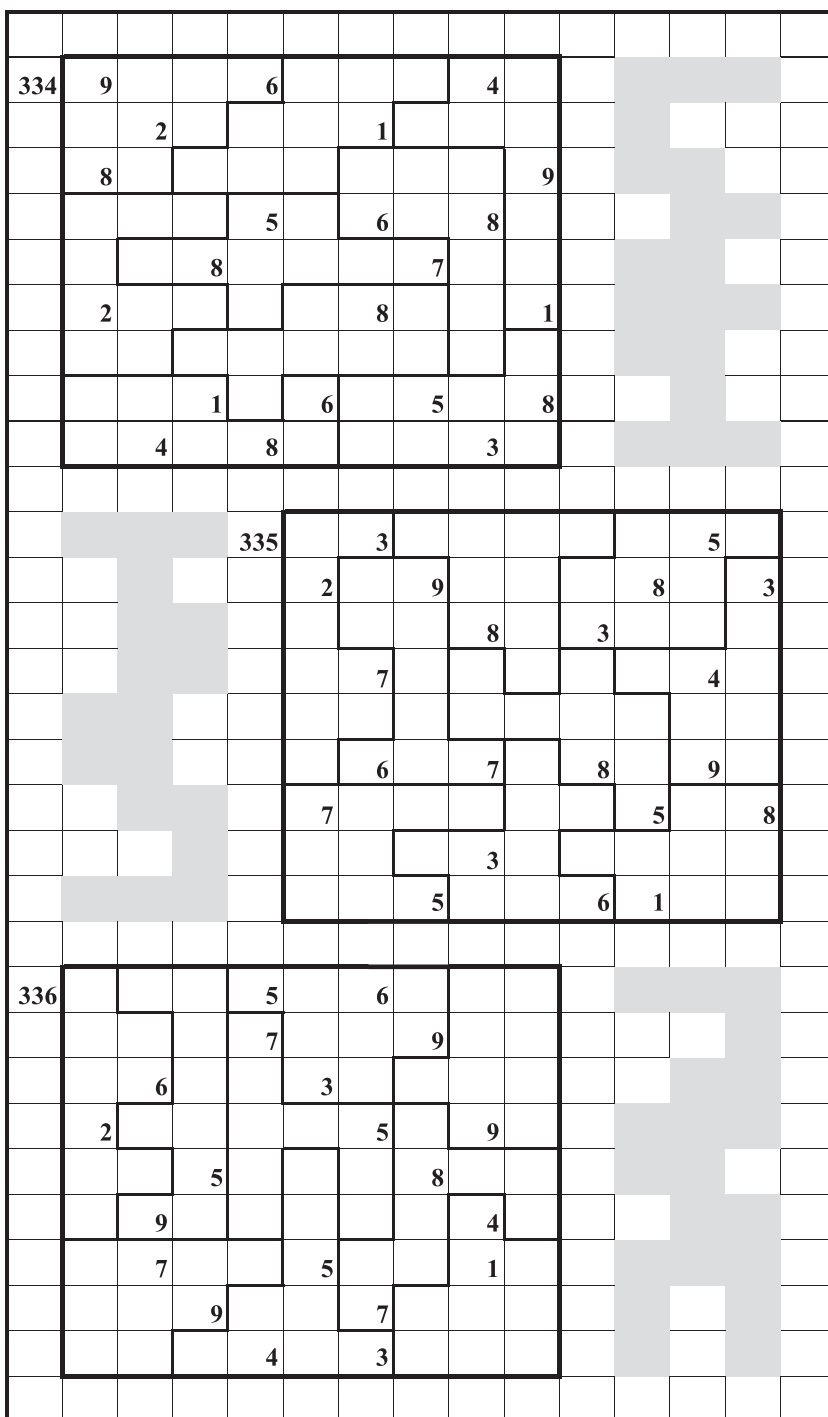
This exercise of the logical calculations, has special benefits of a gray matter workout. It is one of the perfect brain exercise and that solving such grids, is capable of slowing the progression of brain disorder conditions such as 'Alzheimer's'.

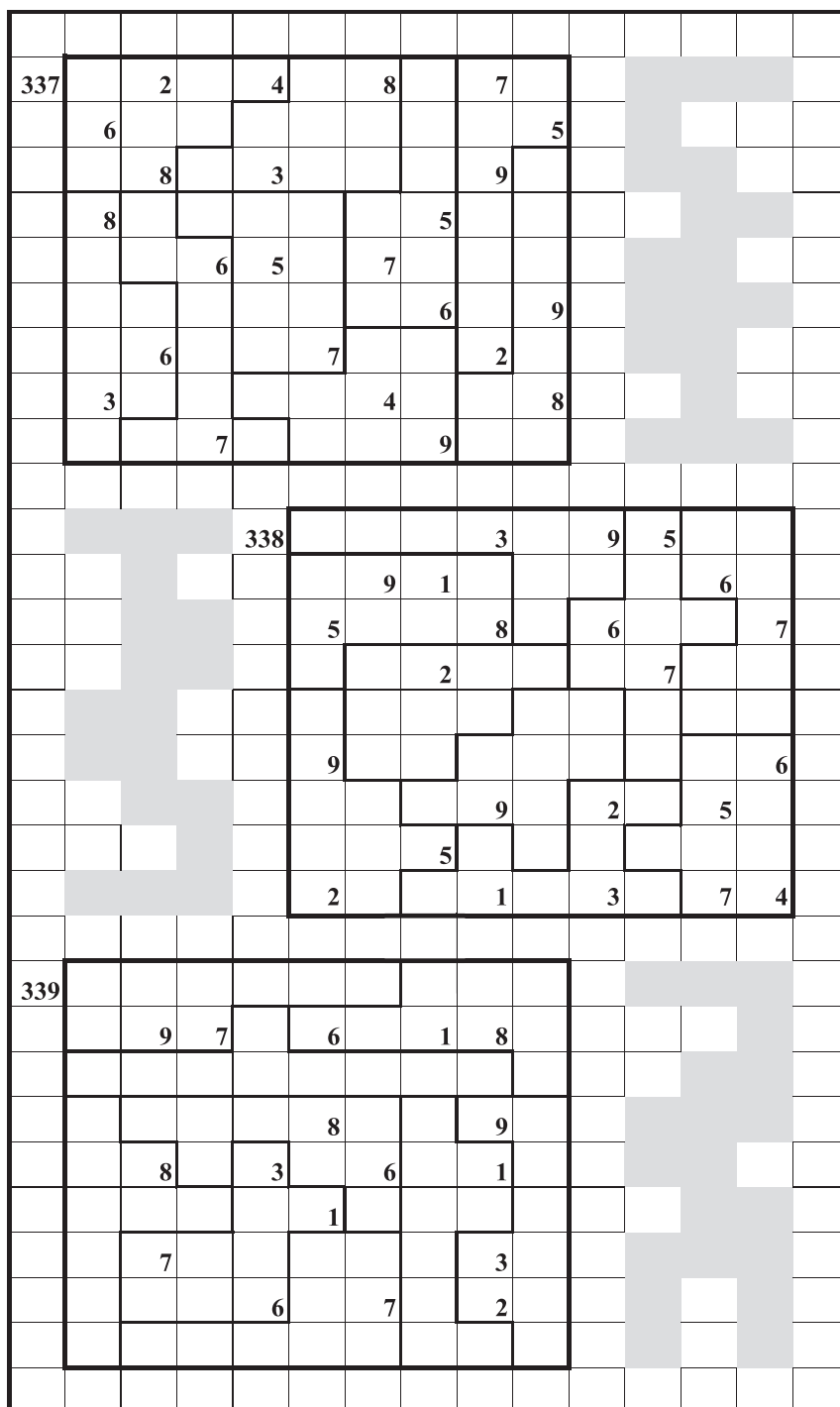
Where this rapidly developing fondness is leading to, no one can tell. What is clear though is that it is fun and an extremely challenging way for people of any age and culture to hone their logical deductive abilities. One can see the benefits of the century old 'Magic Square' in the progression mankind has made.

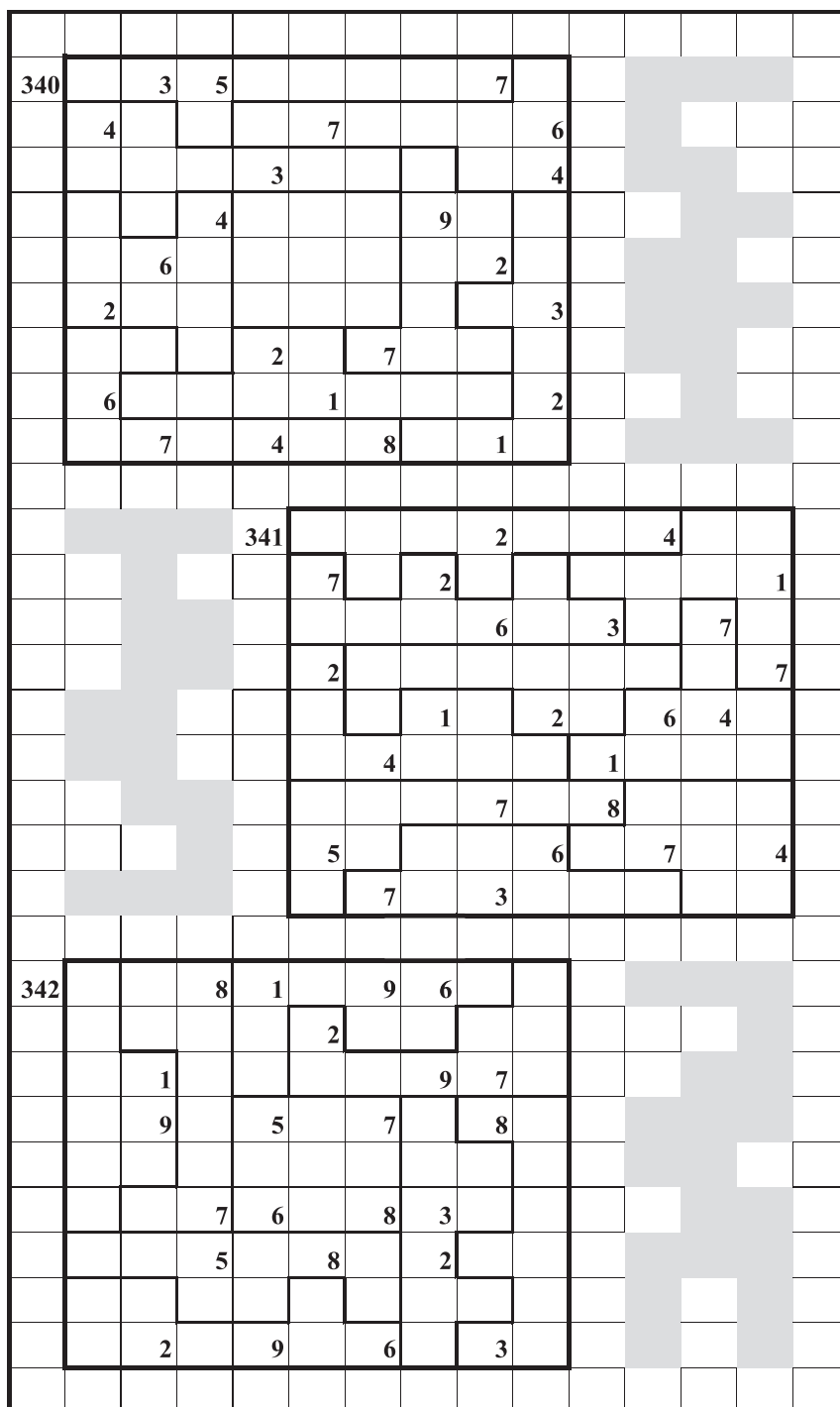
In this book '**THE MAGICAL SQUARES**' – **APPETIZER**, the author has kept the traditional 'magic Square' in mind but the volume has resulted like

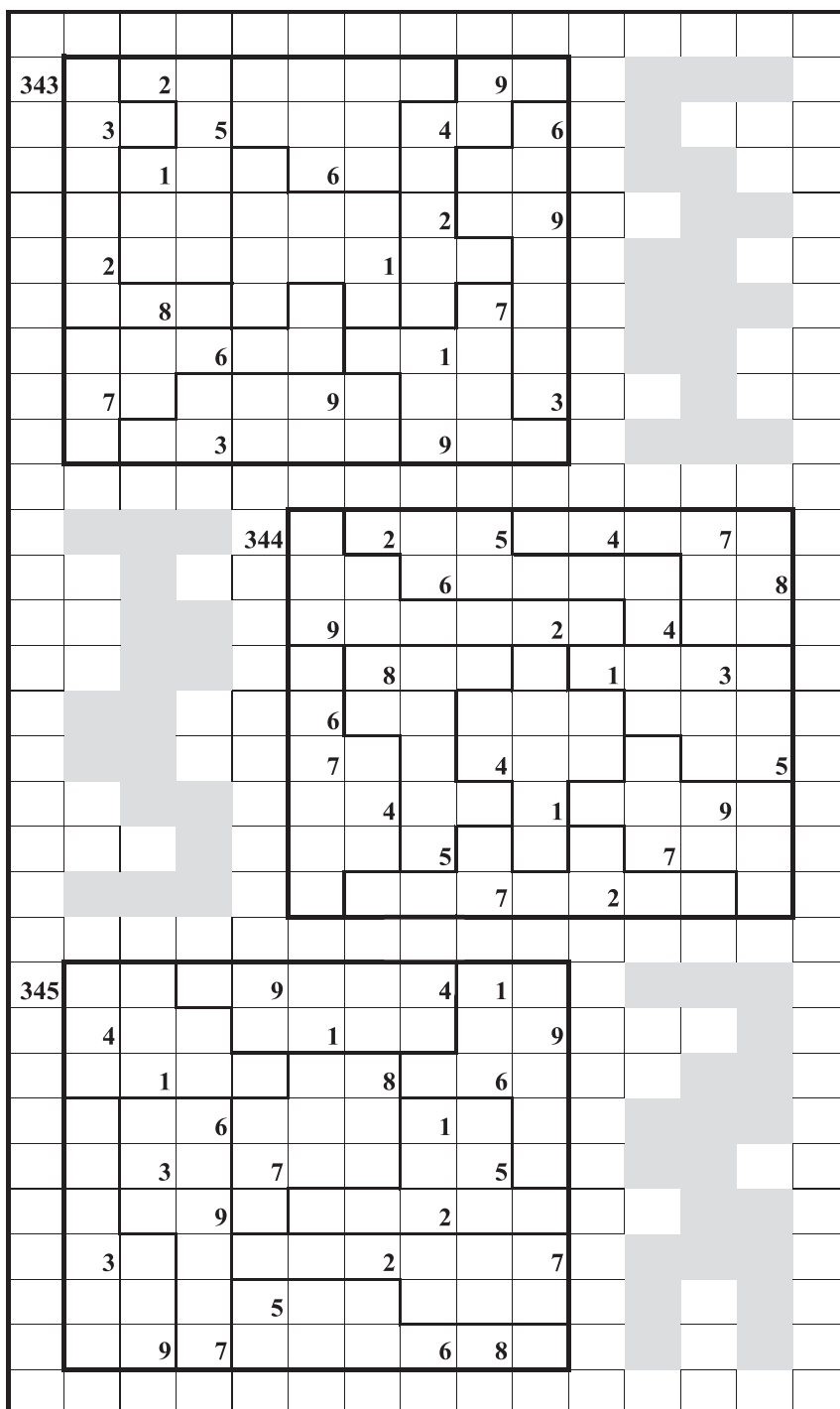
the **Latin square**, without the diagonals adding to the same digit. The numbers 1-9 have been used in simple grids of 9x9 with sub-grids of 3x3, in a PUZZLED manner, wherein the outside squares remain unchanged.

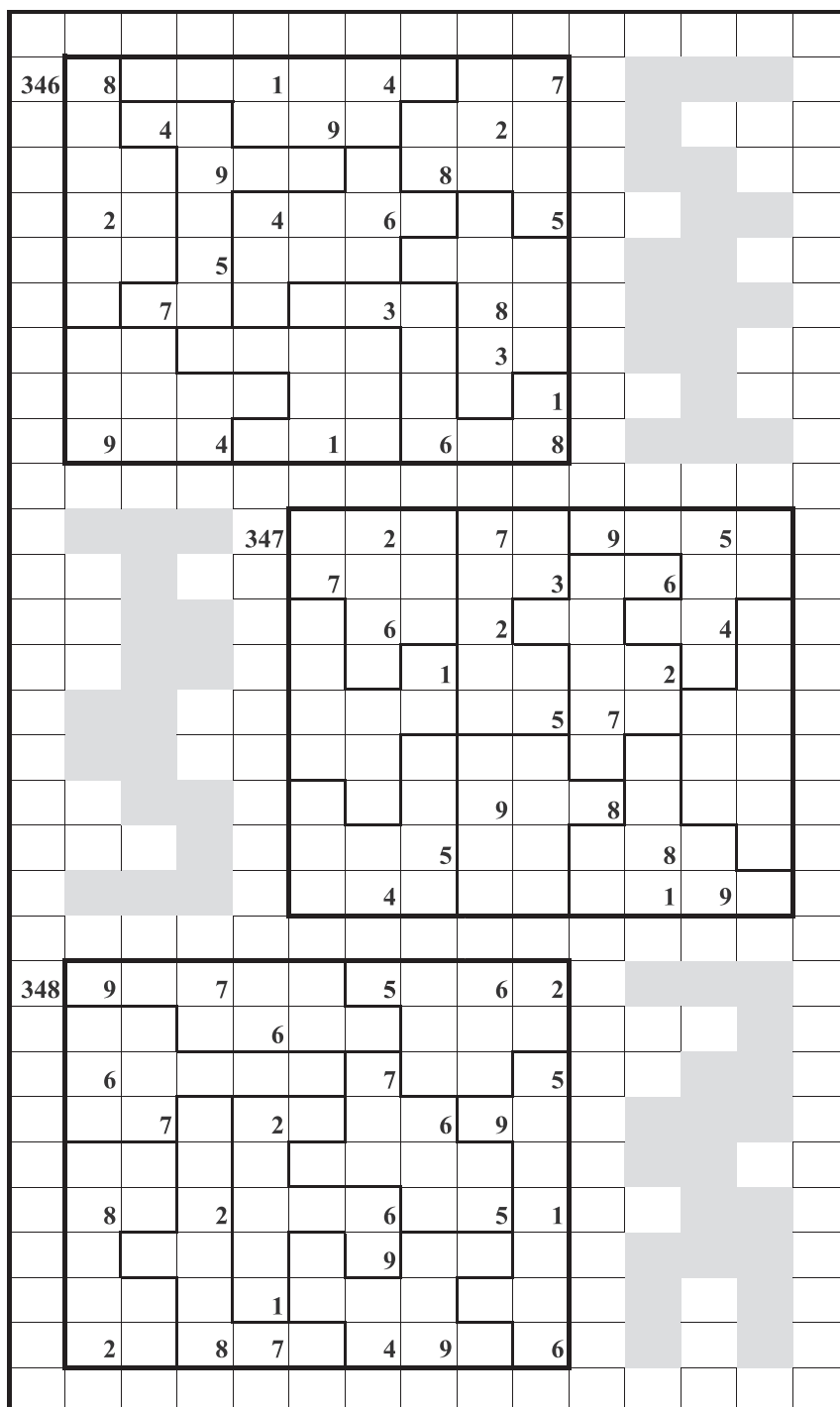
THE PUZZLING GRIDS

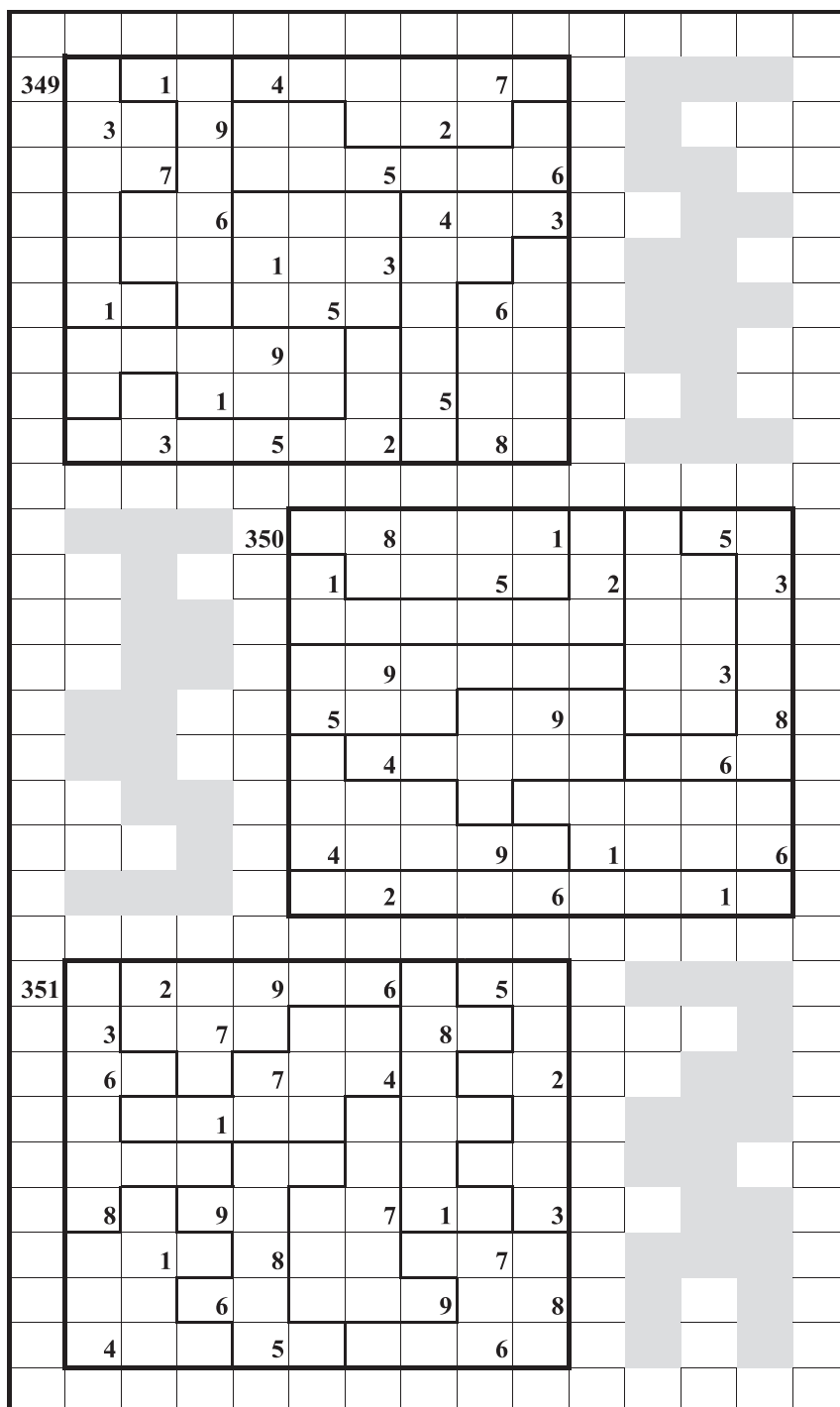


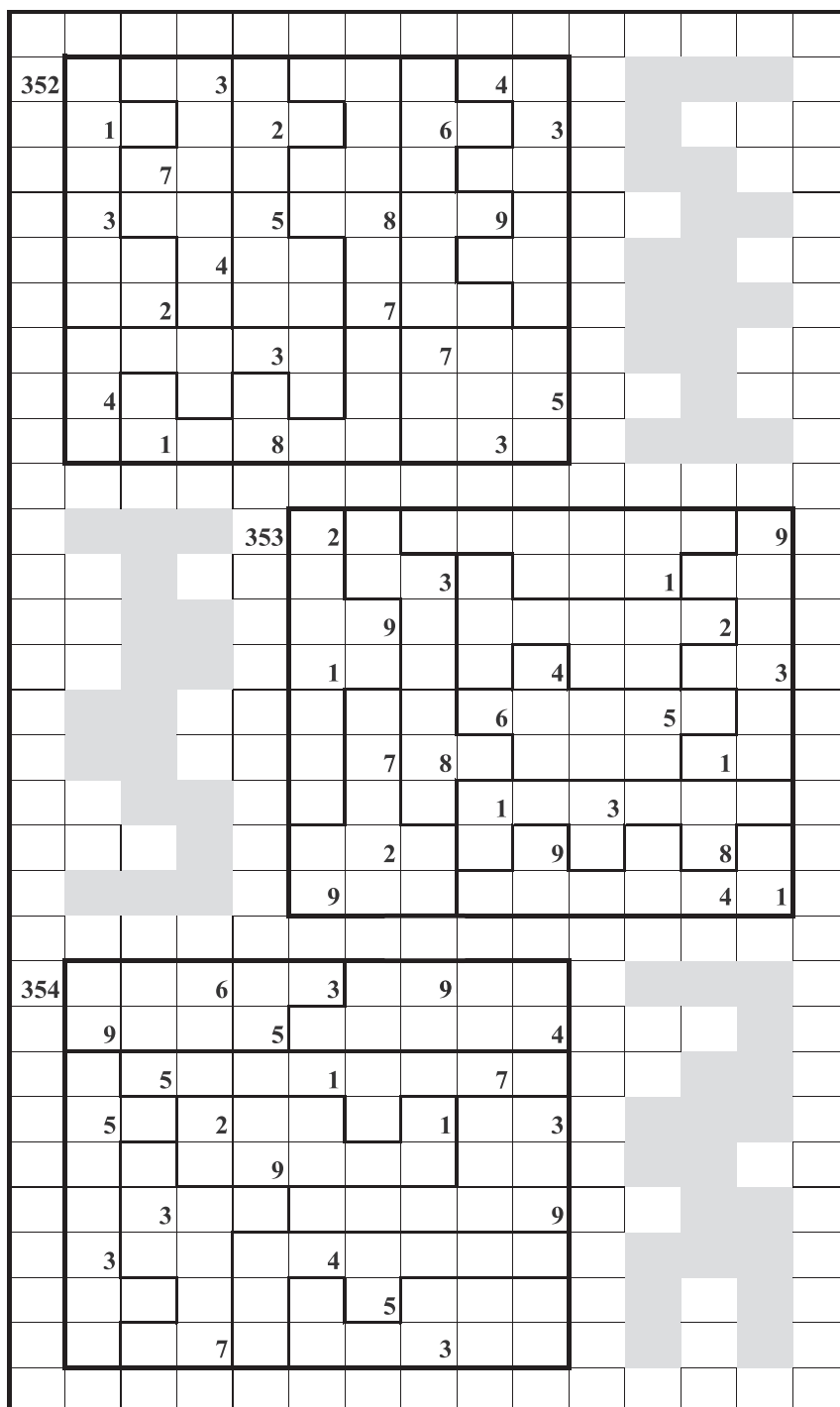


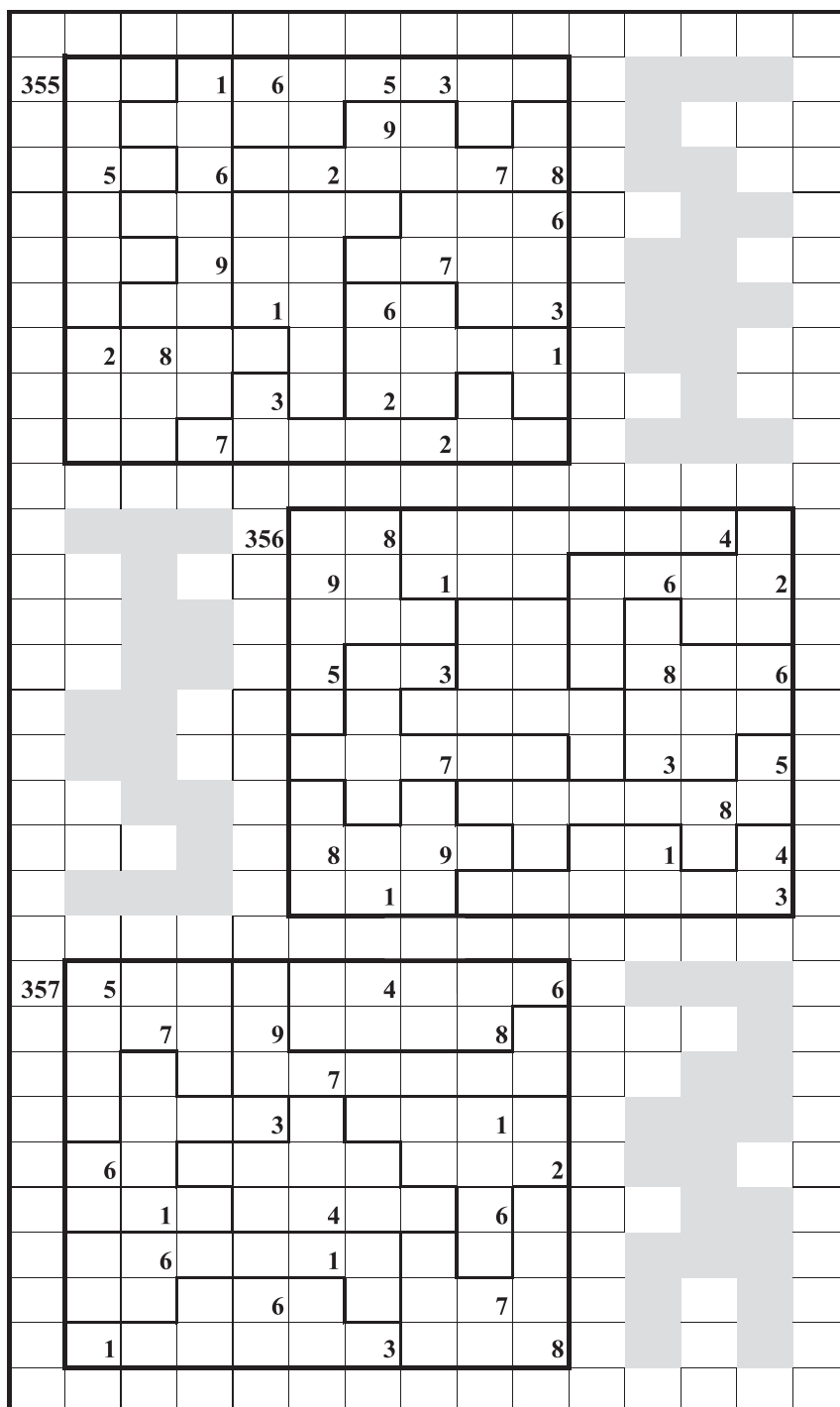


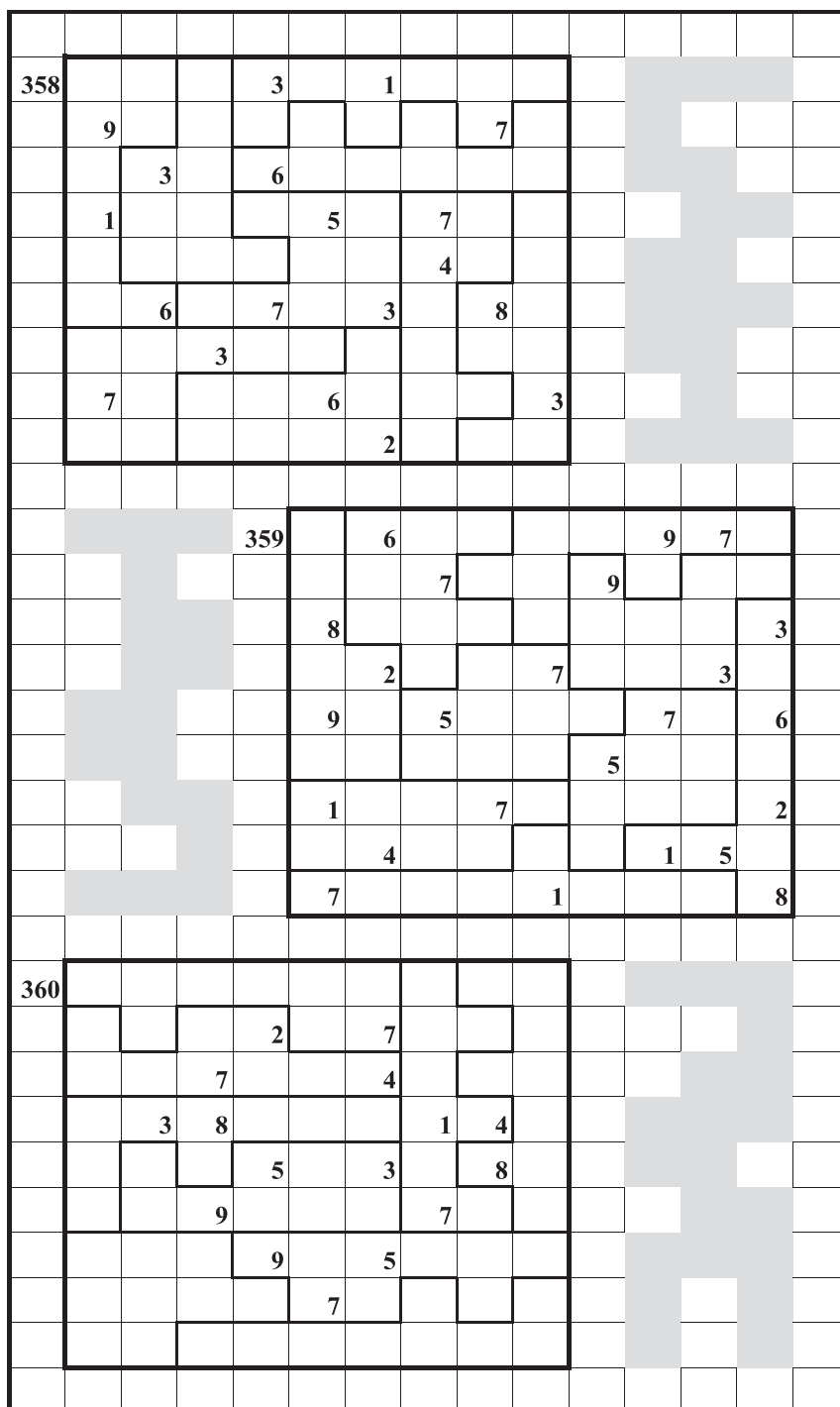


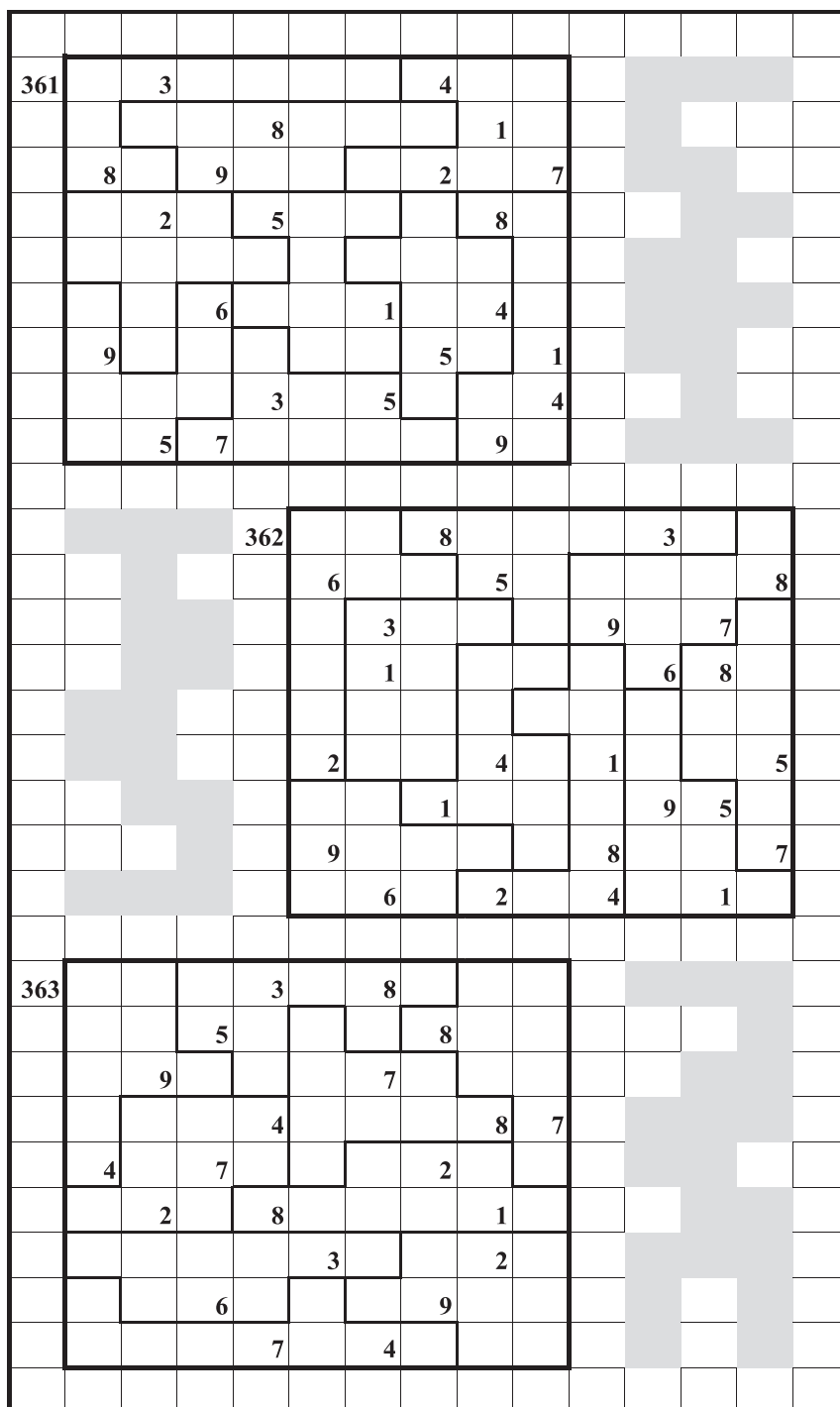


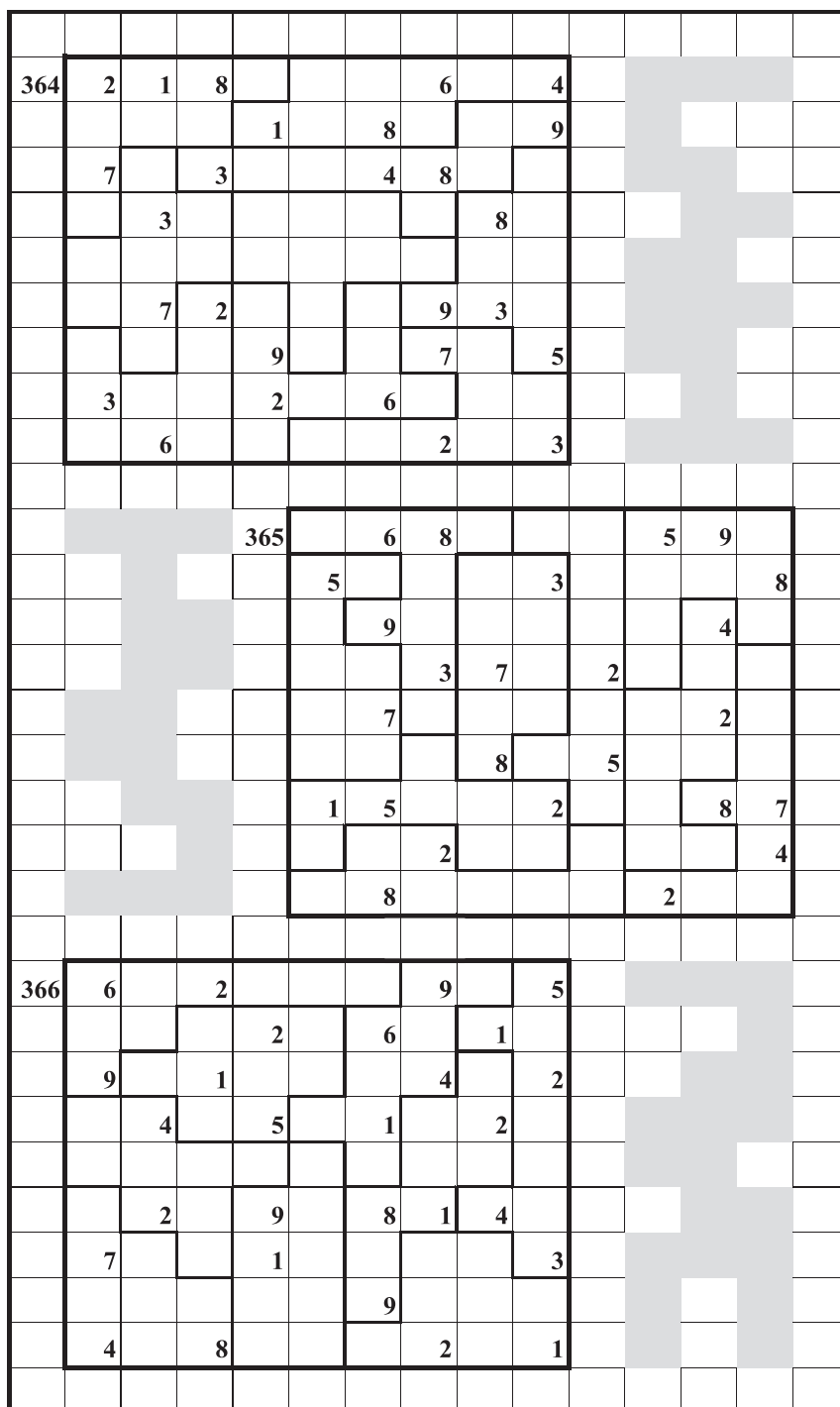


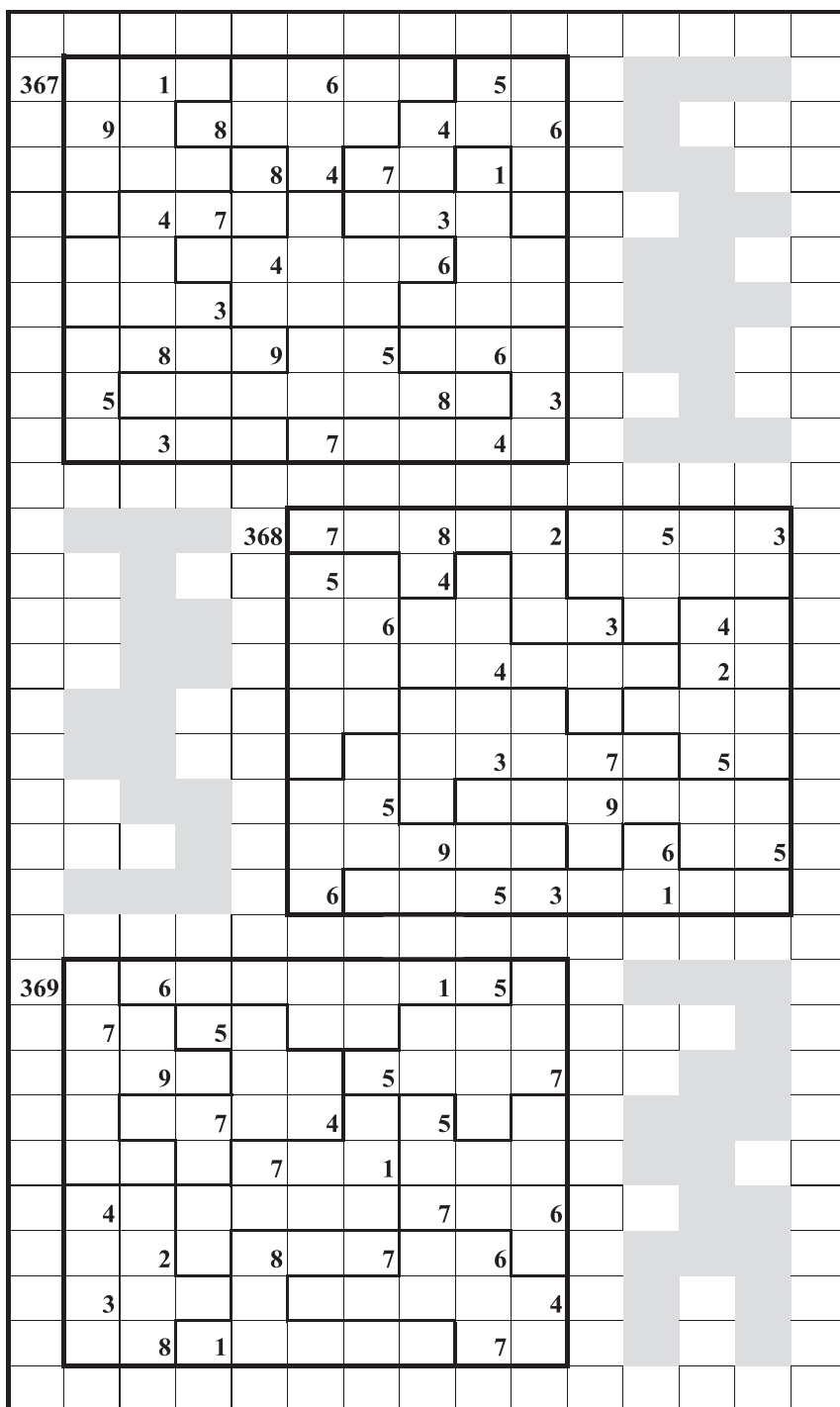


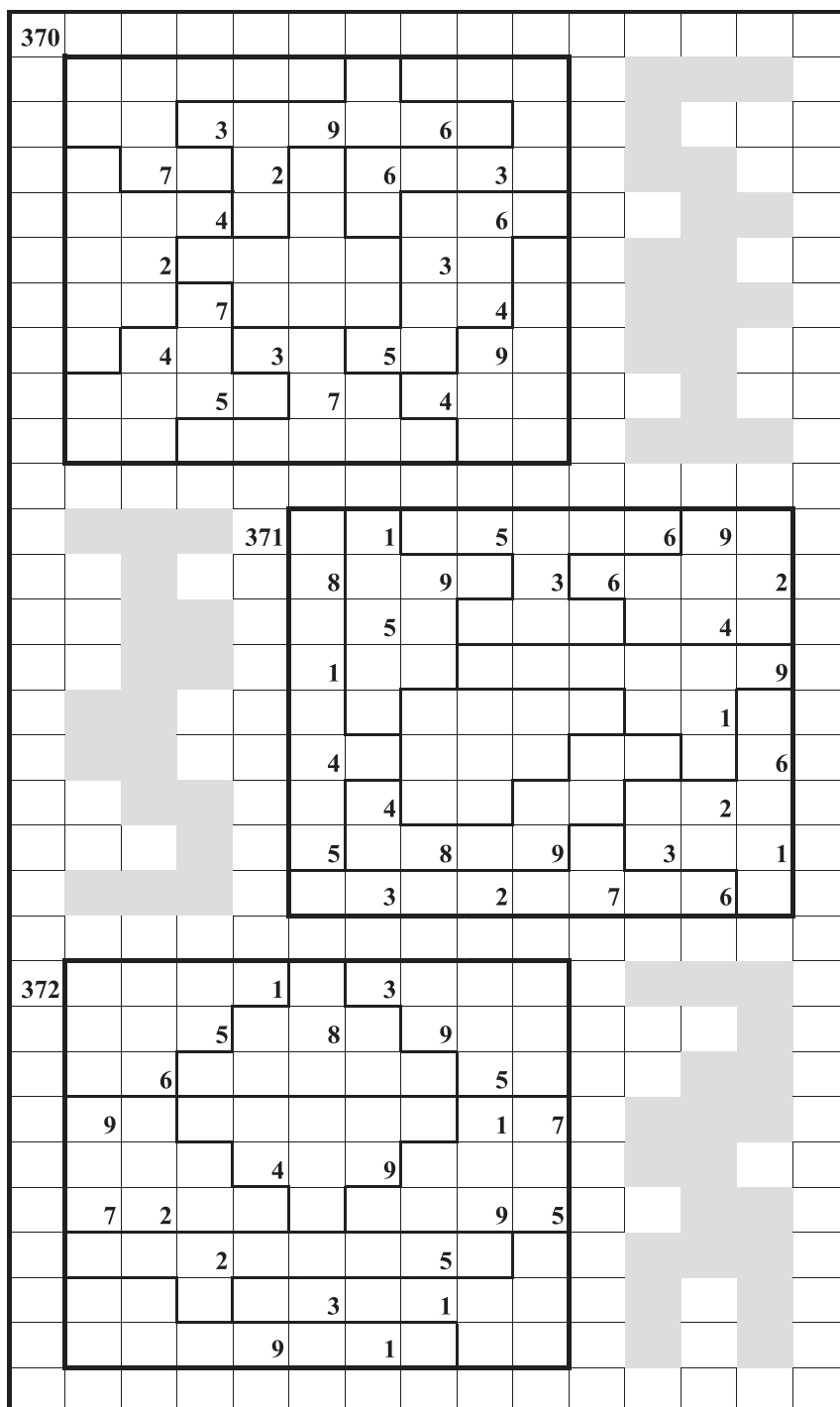


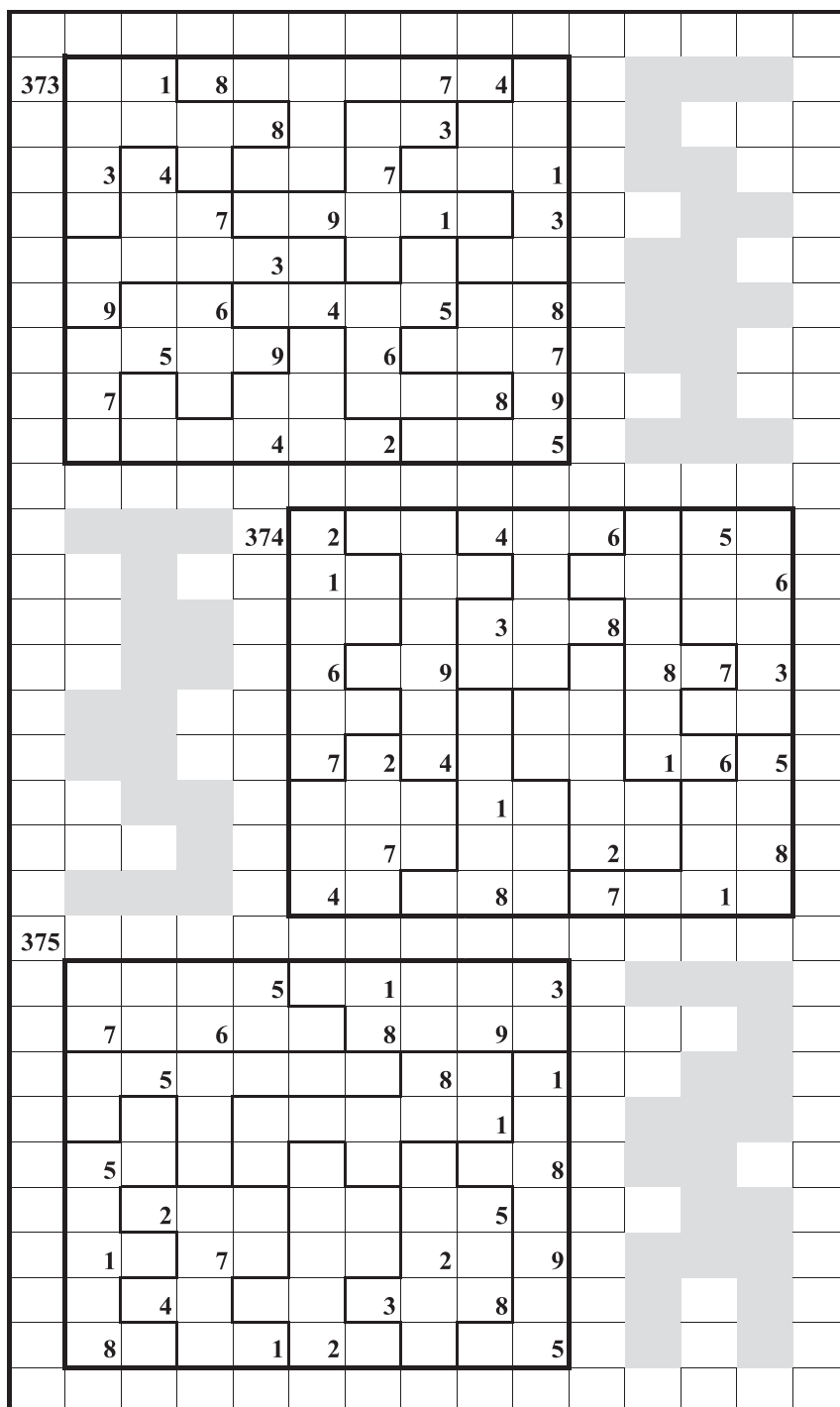


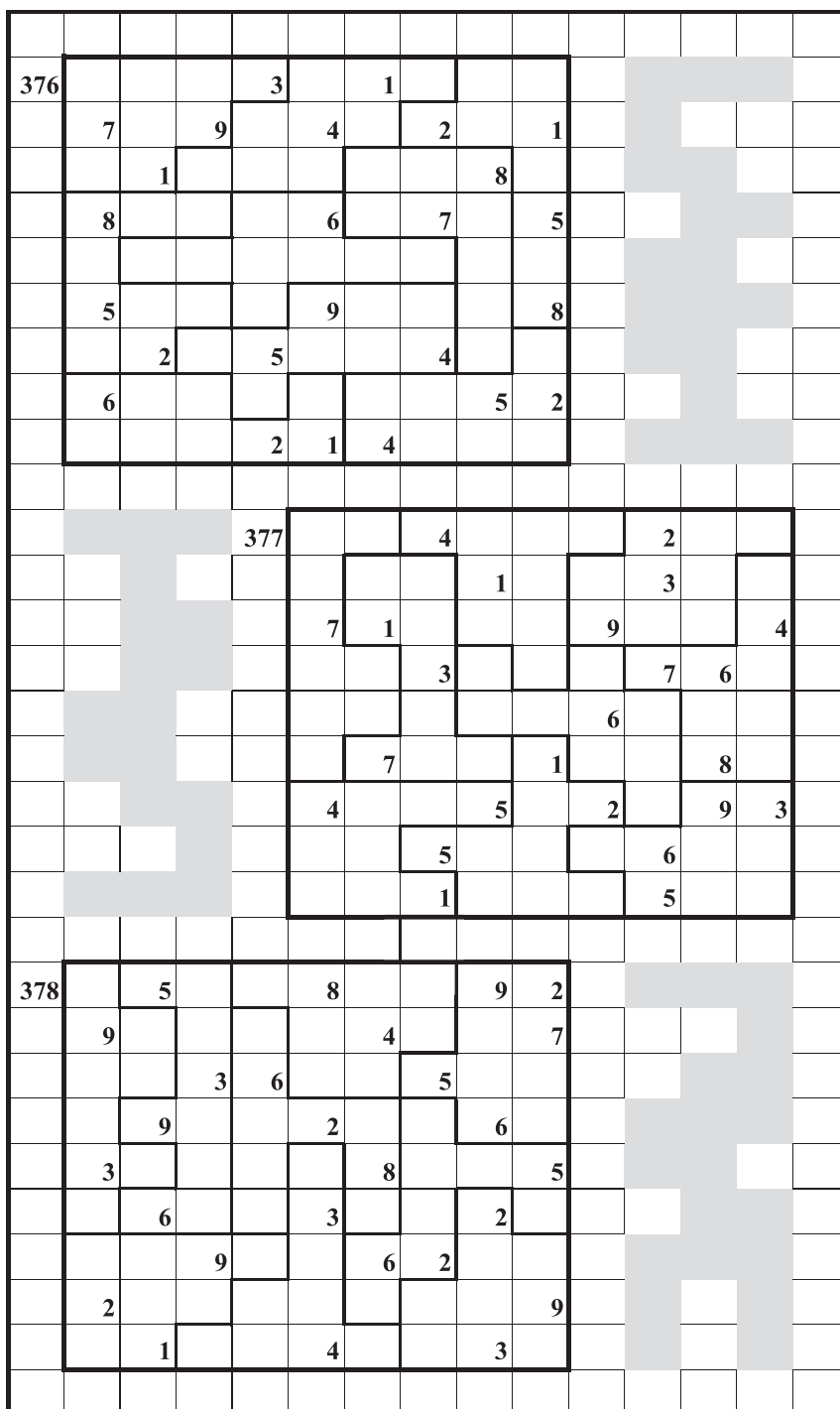


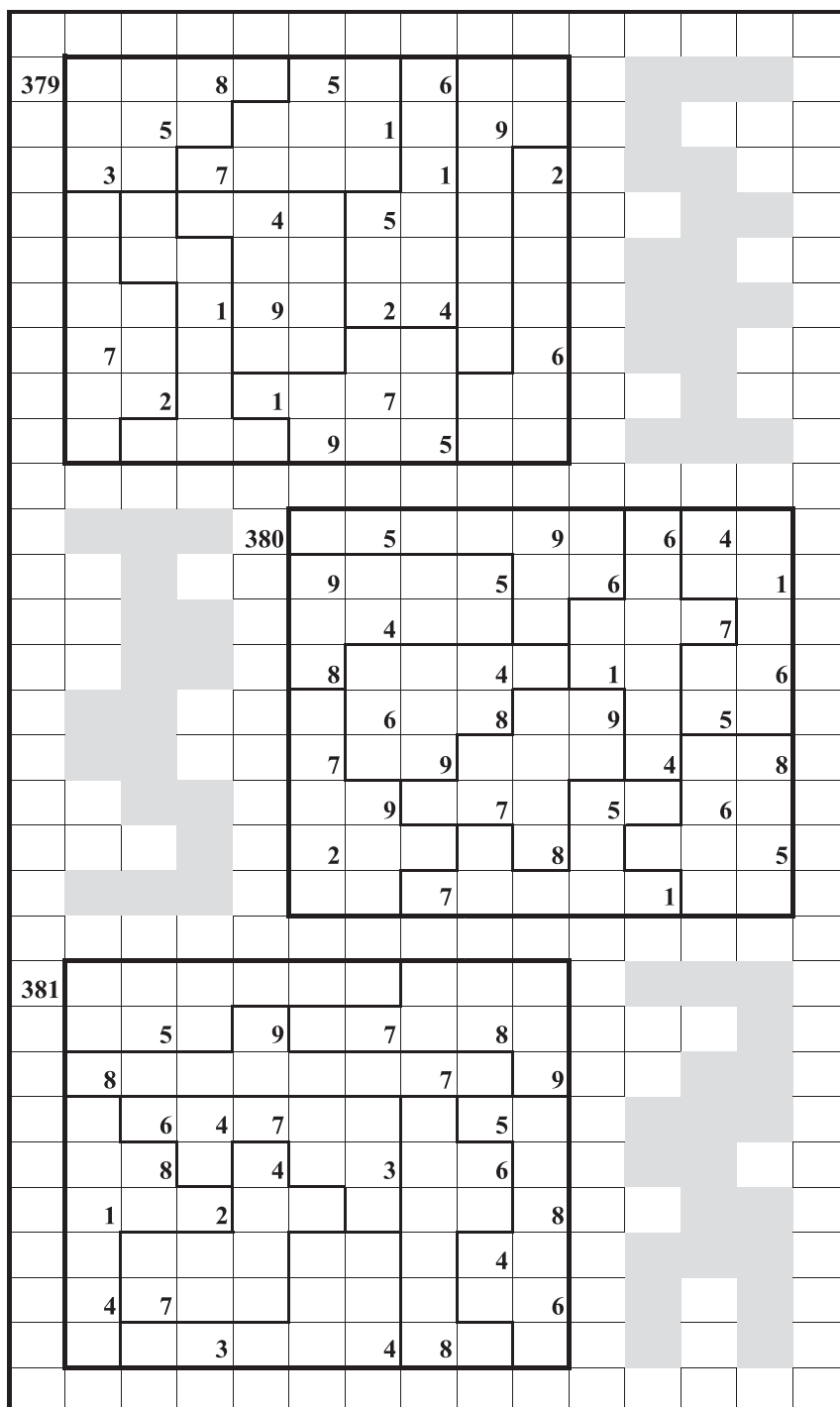


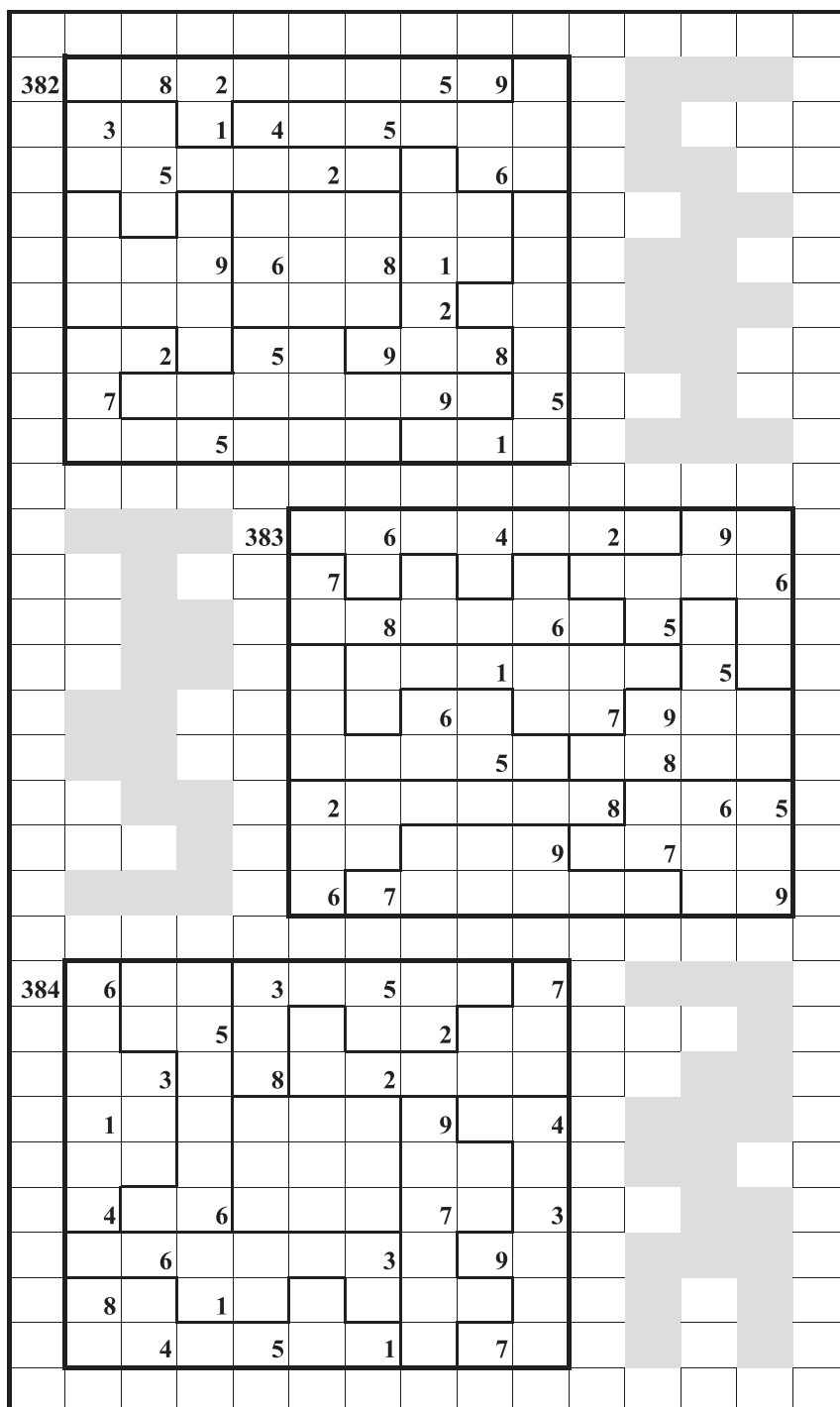


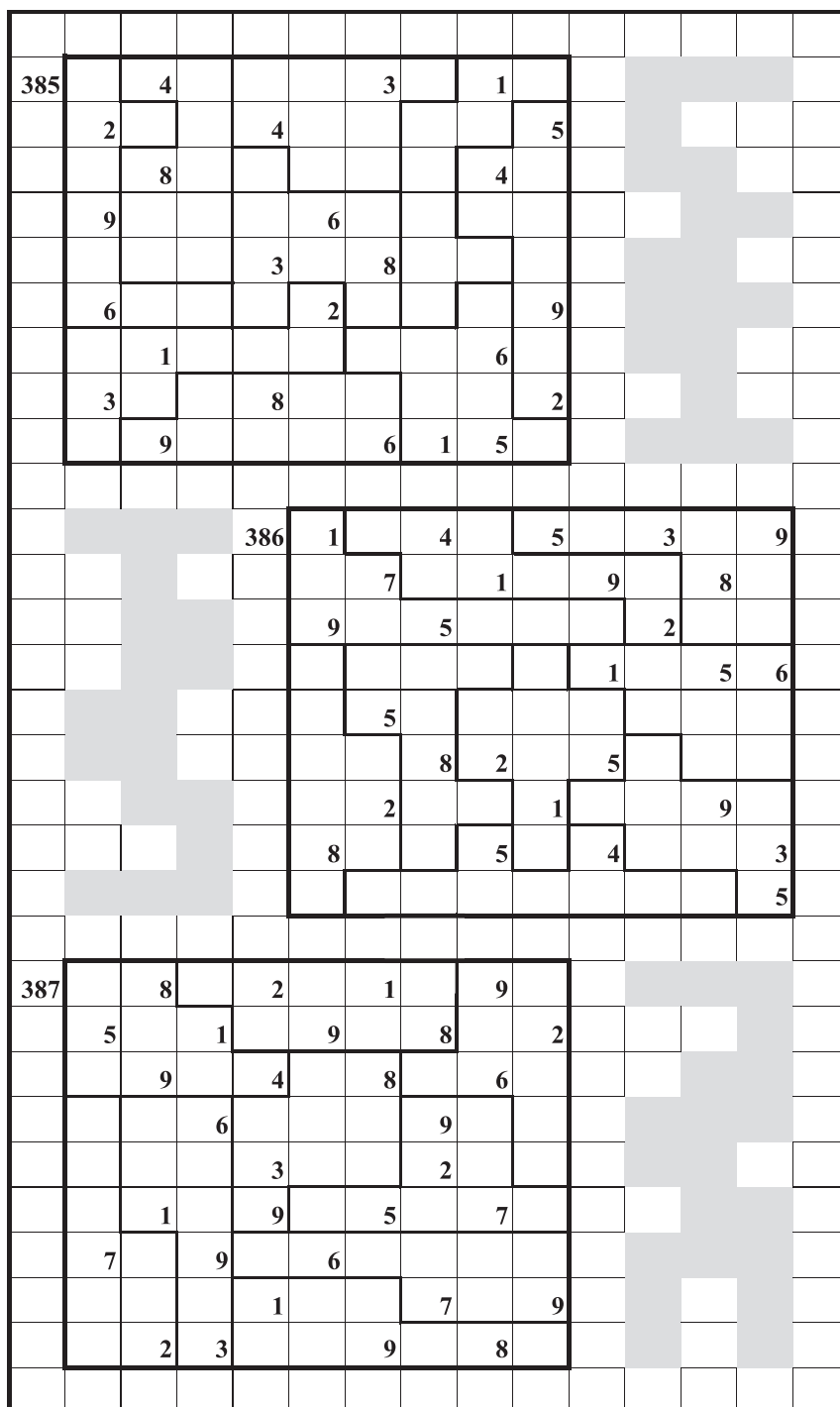


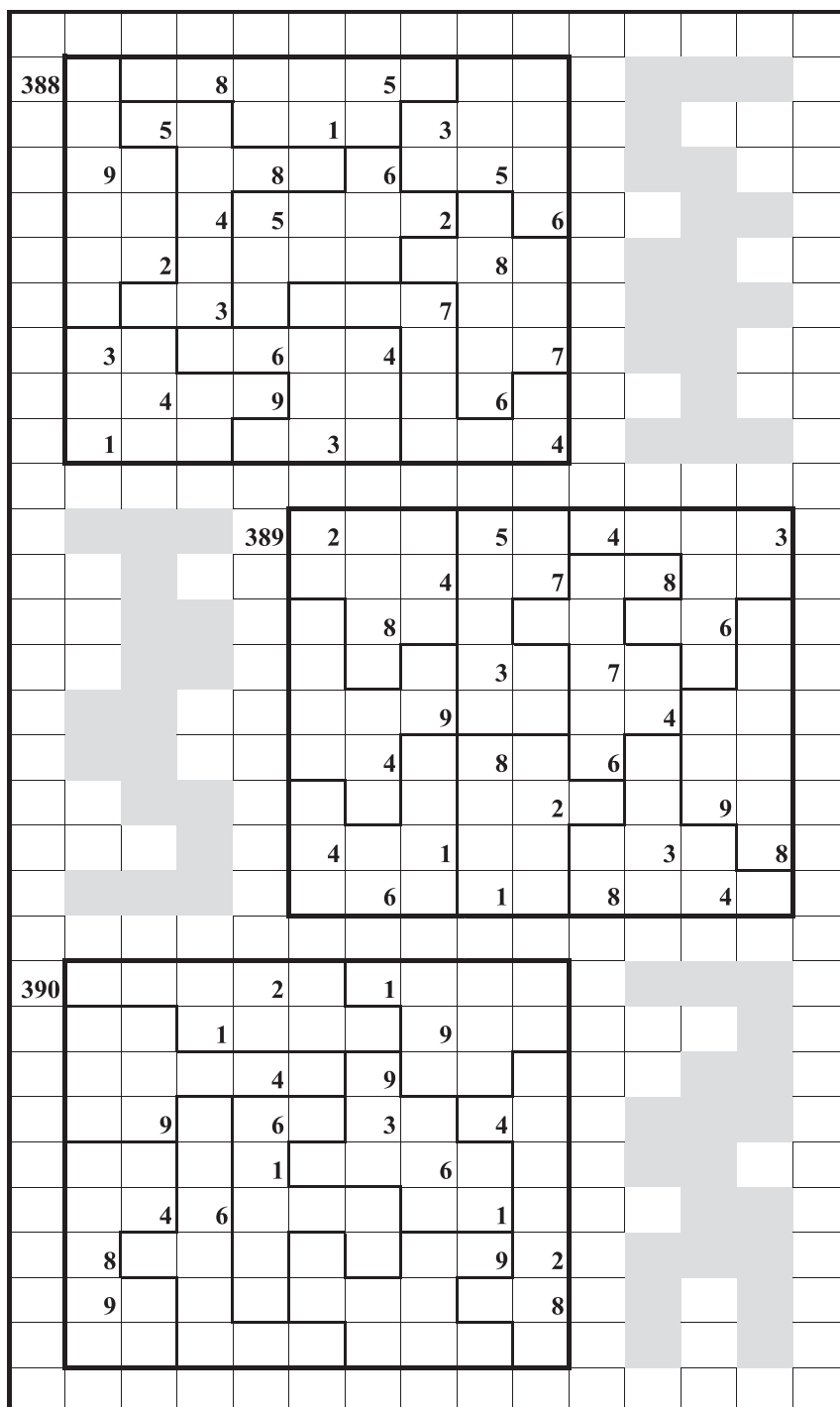


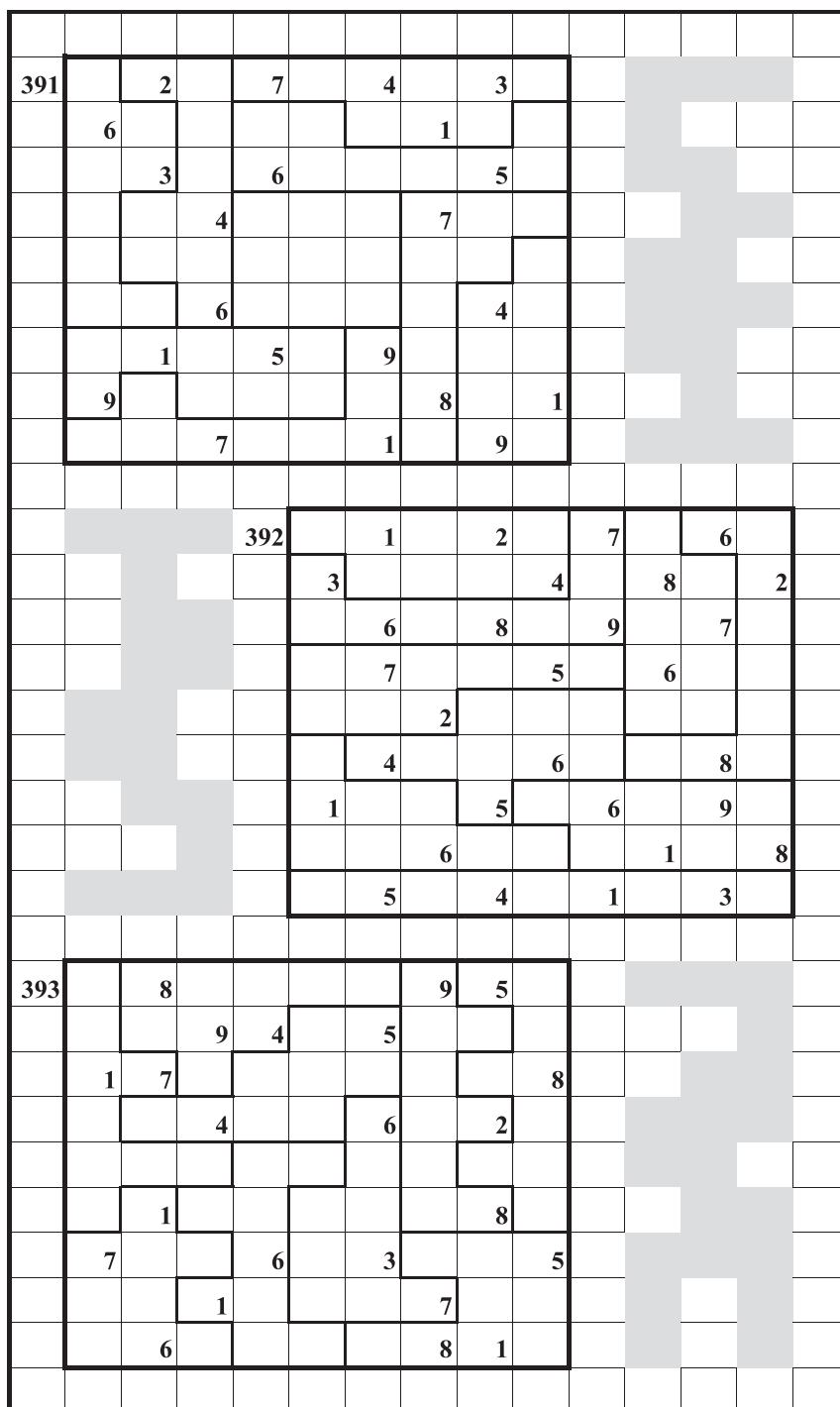


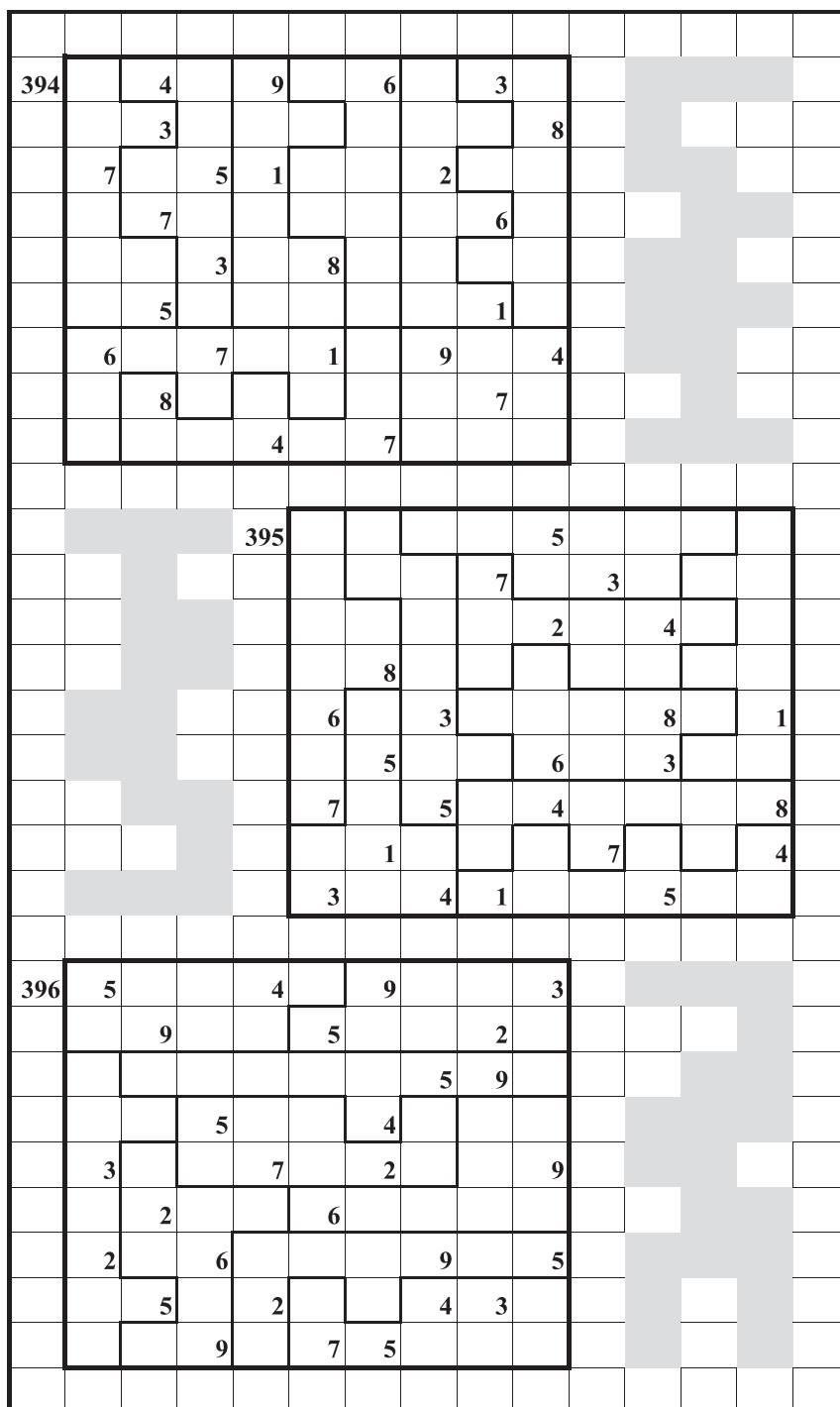


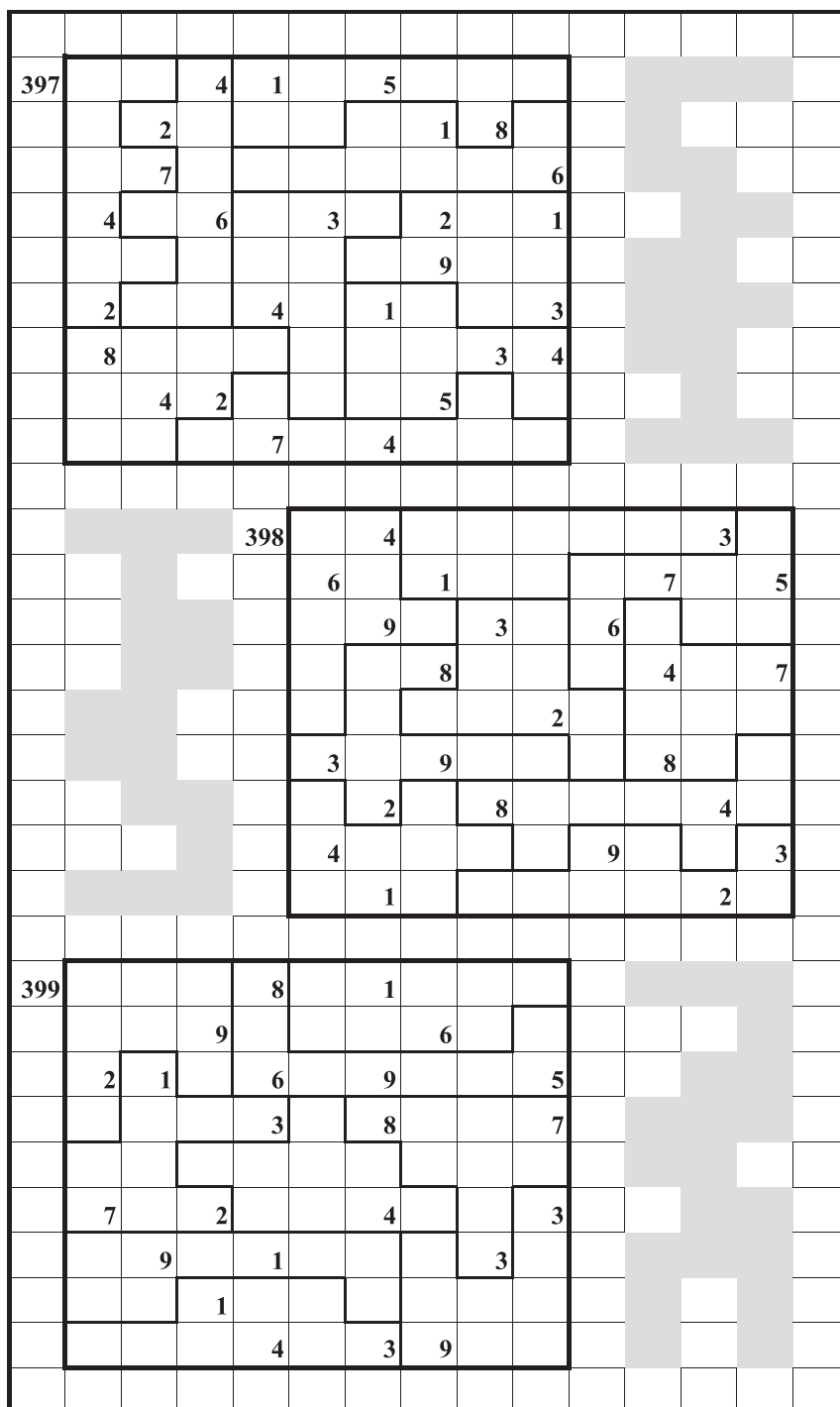


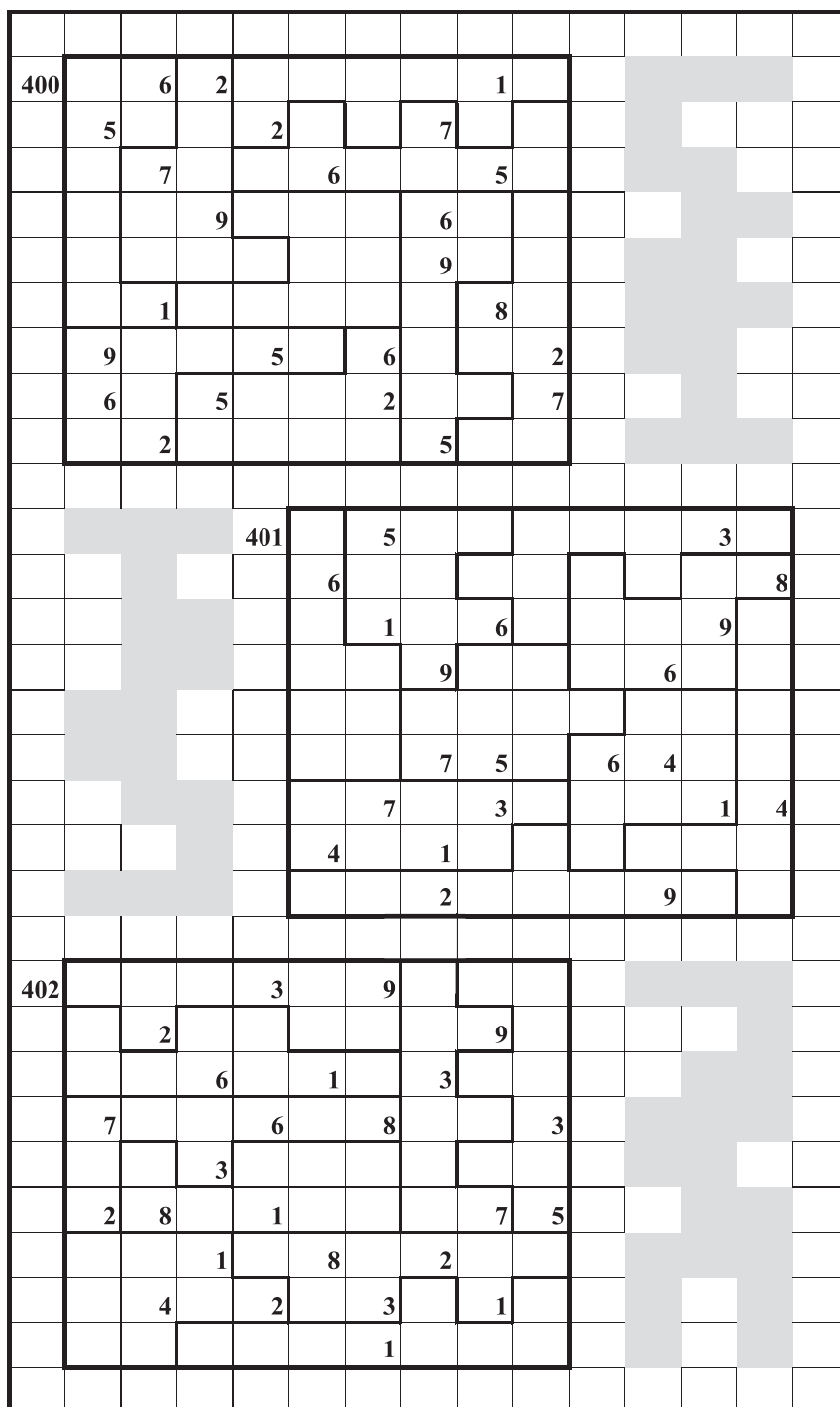


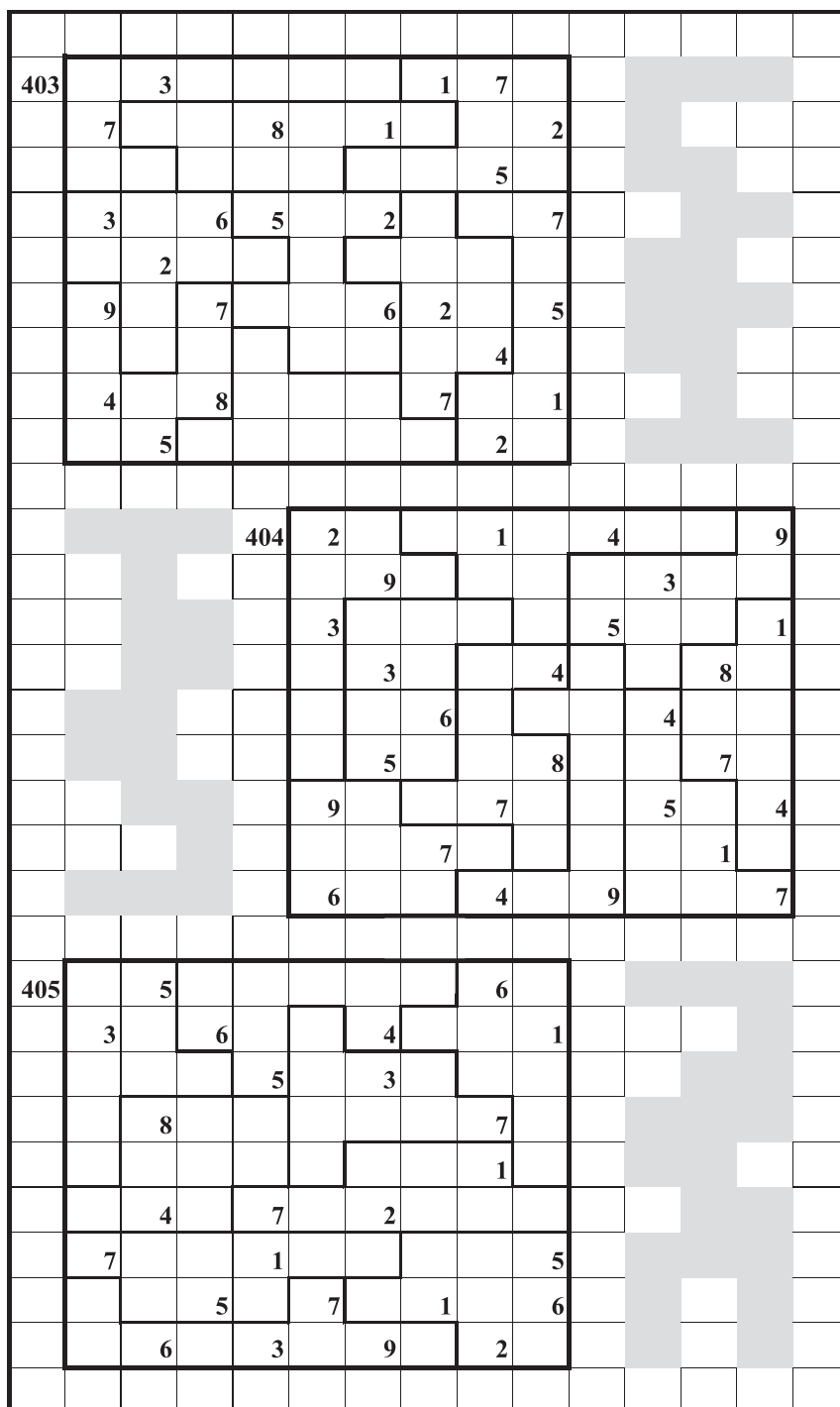


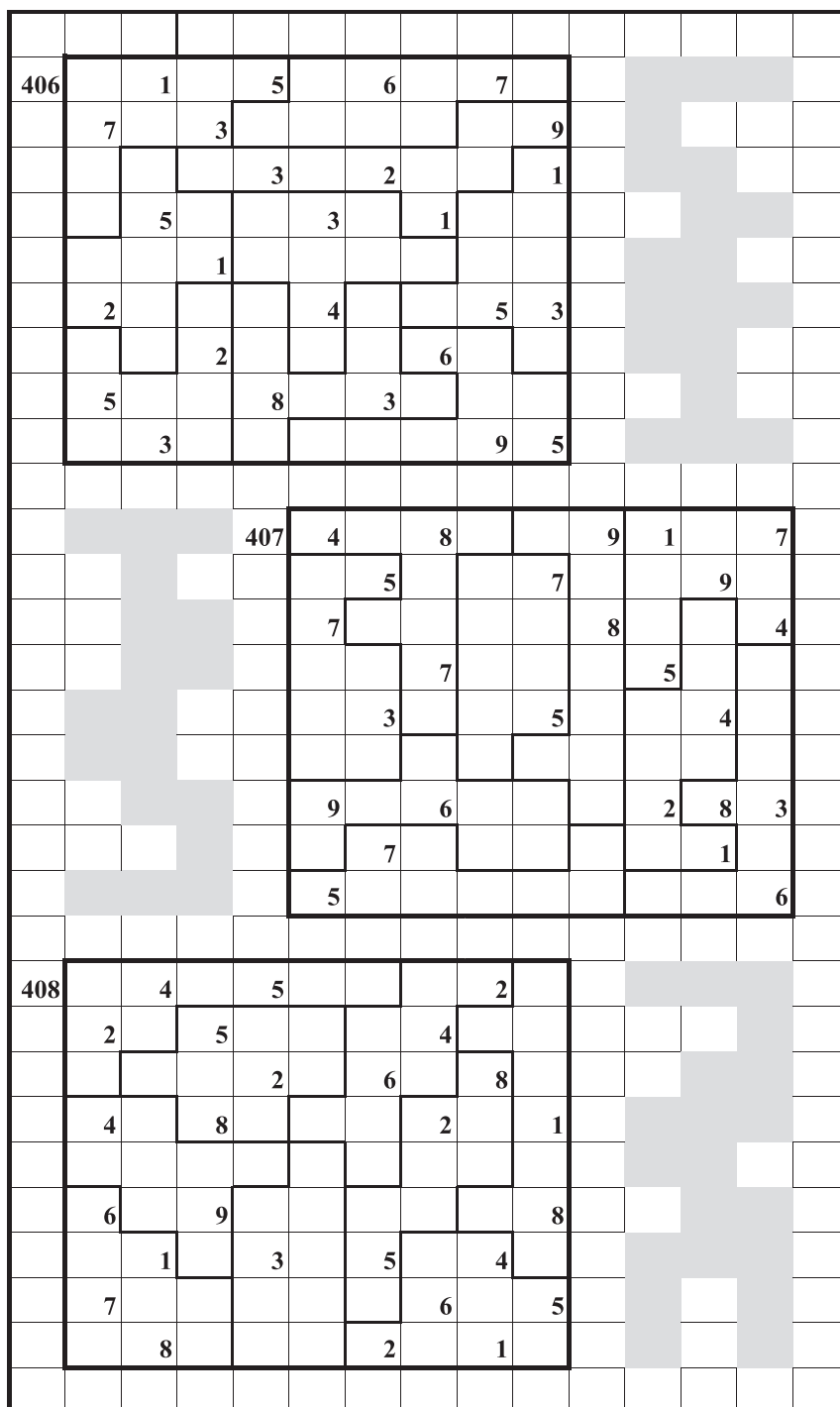


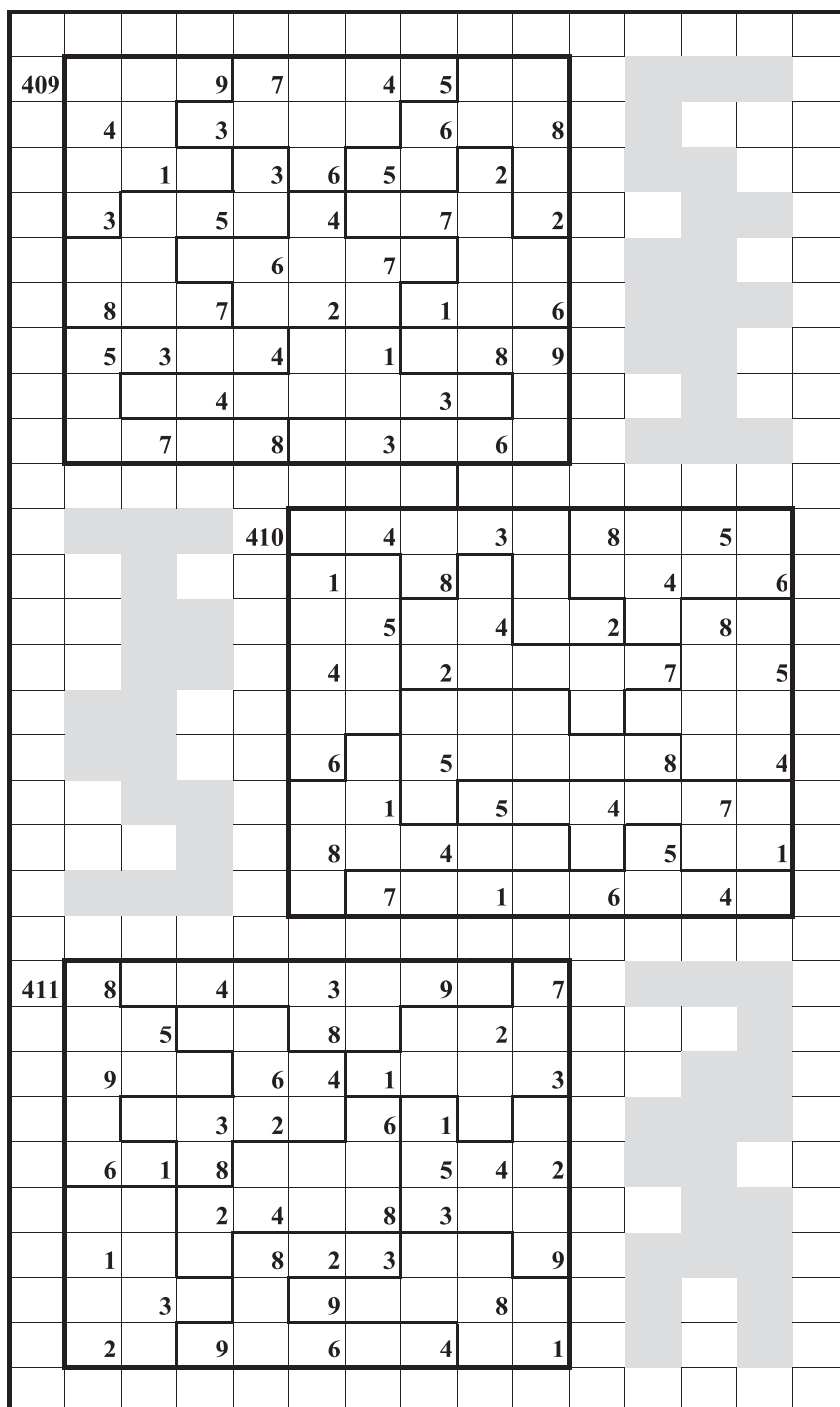


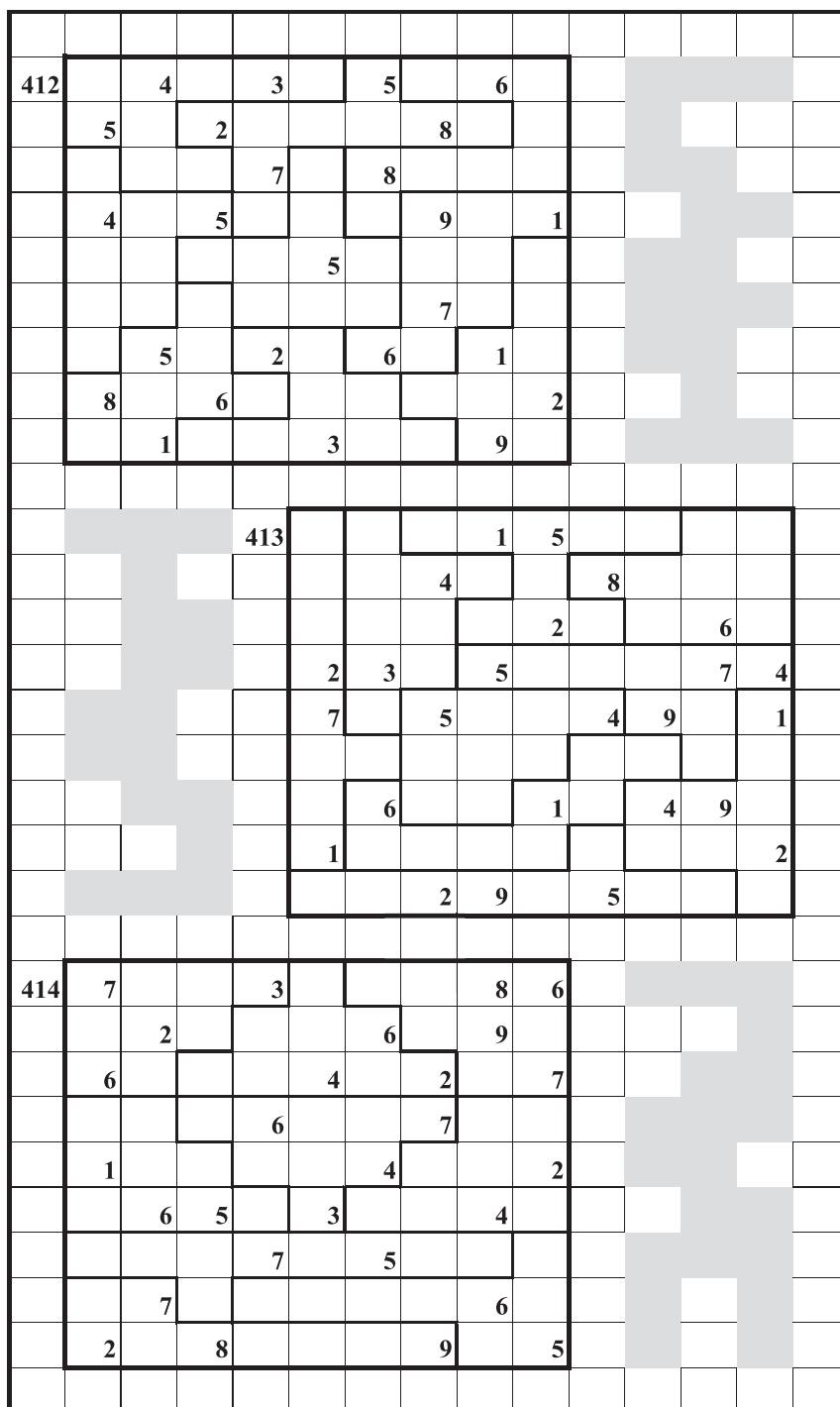


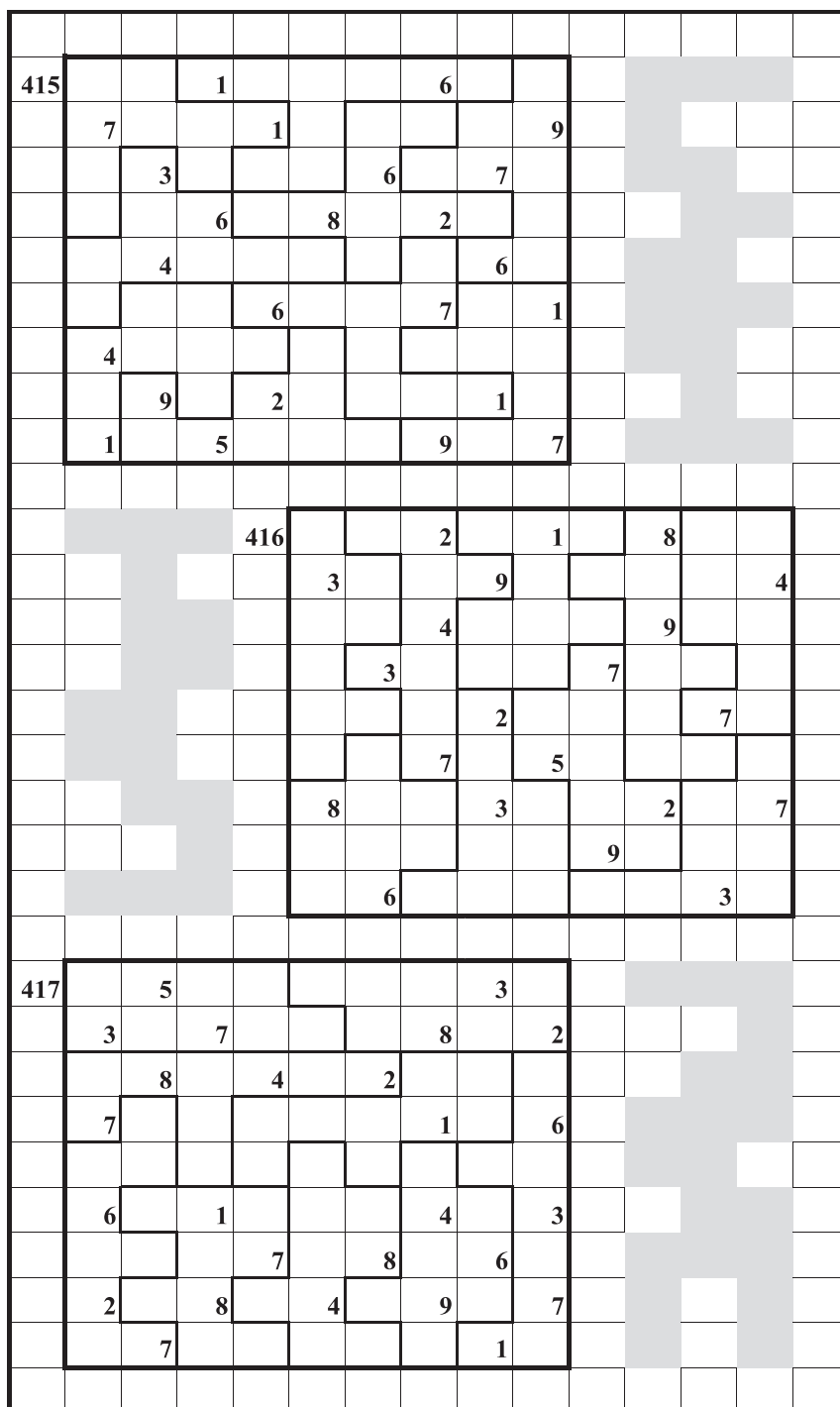


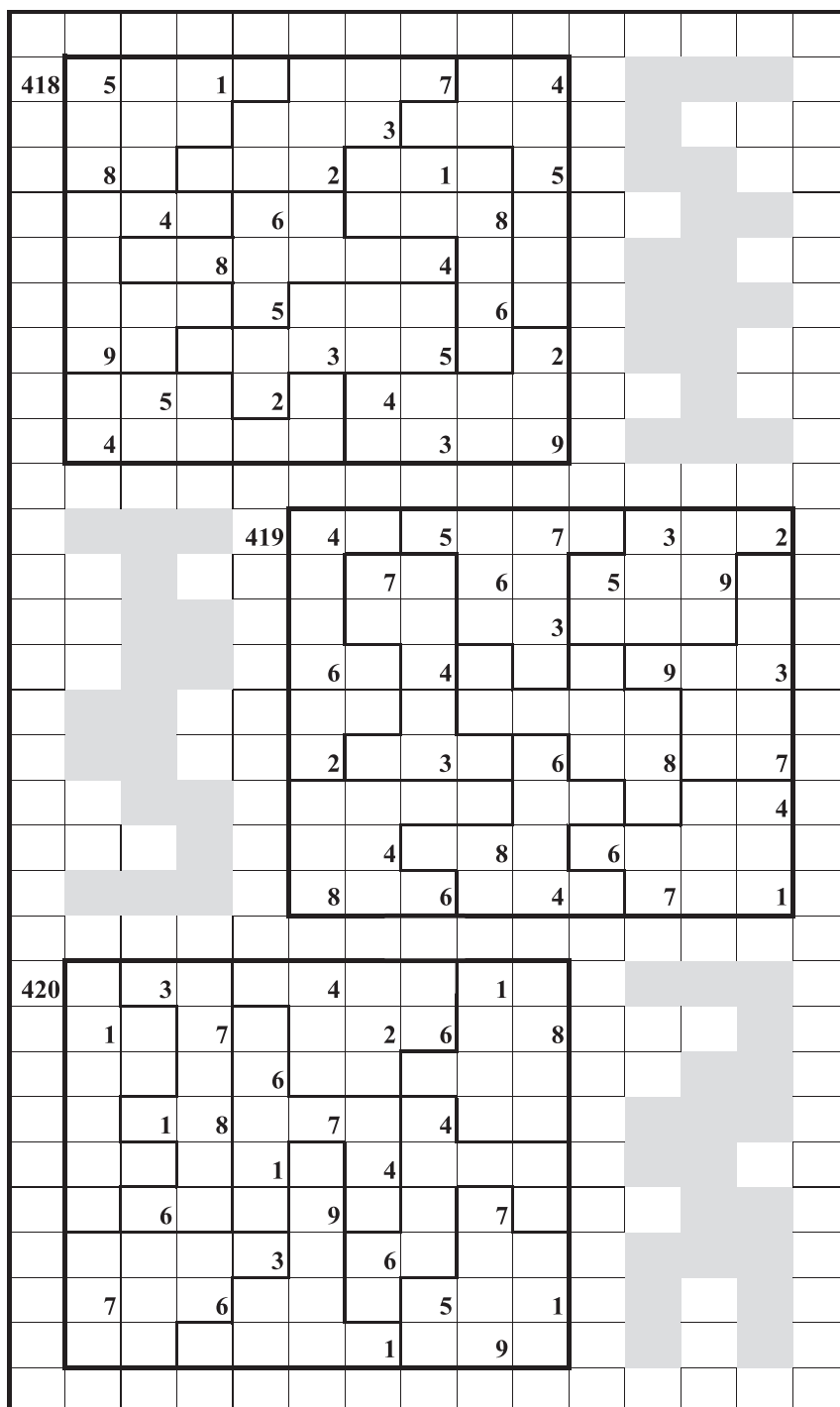


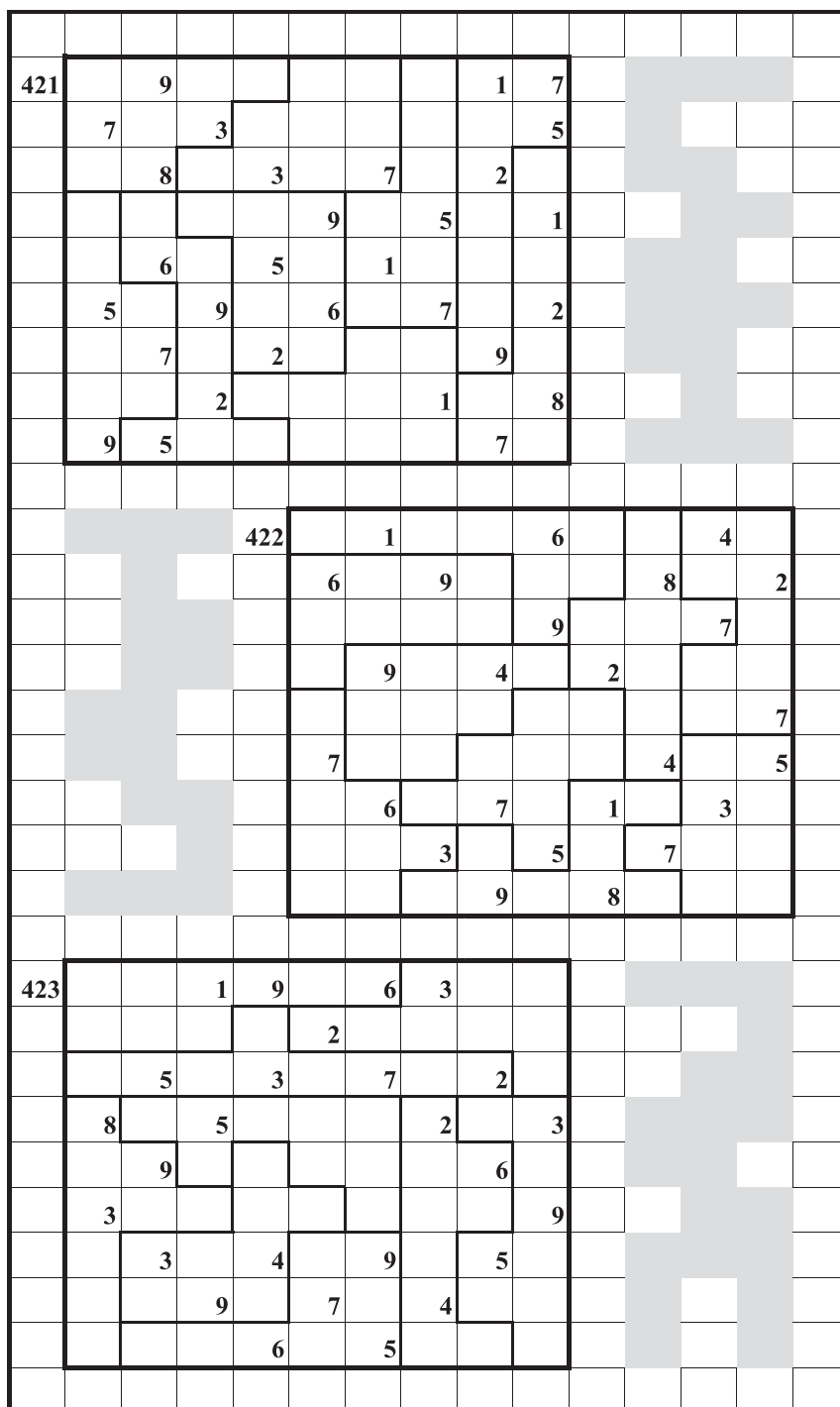


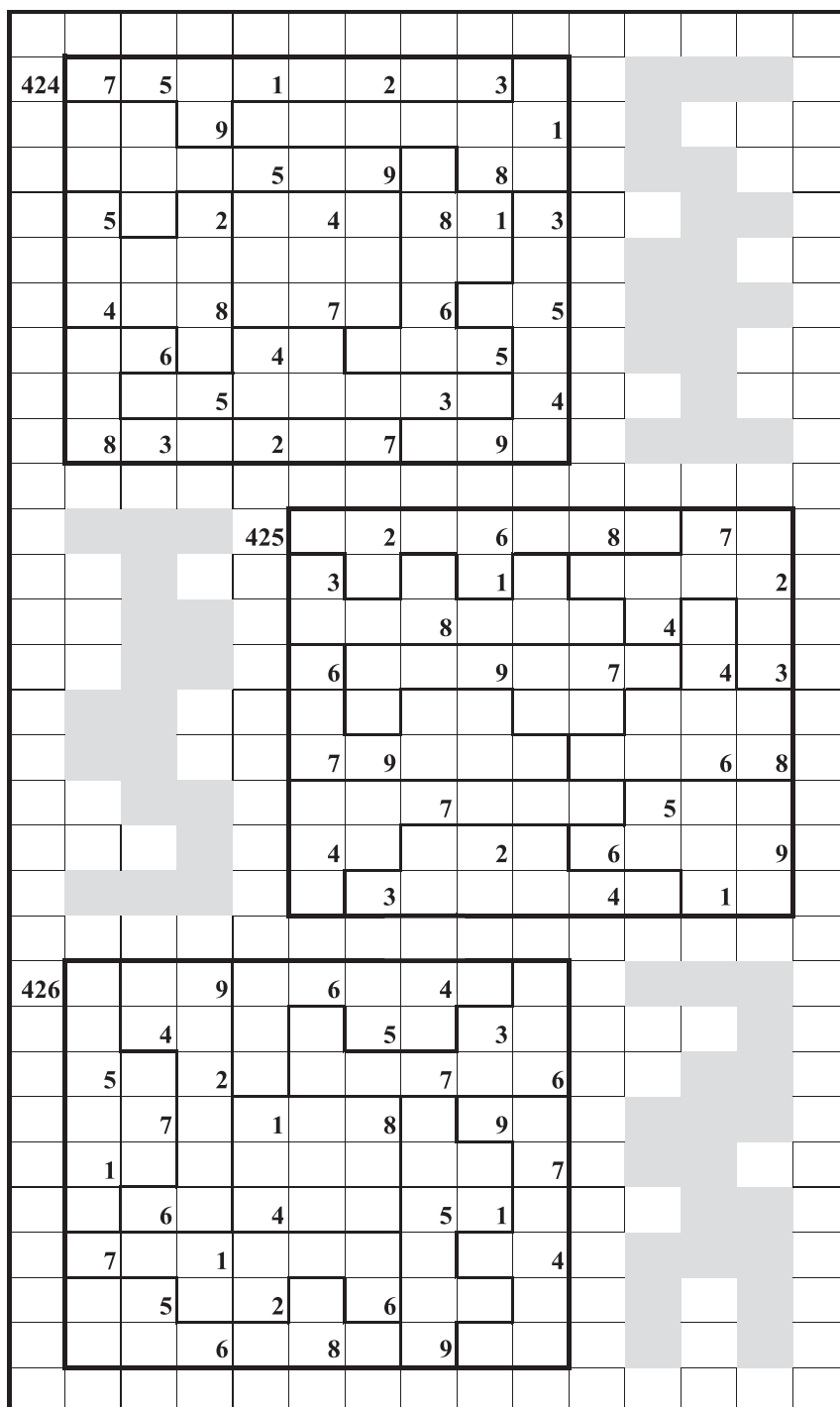


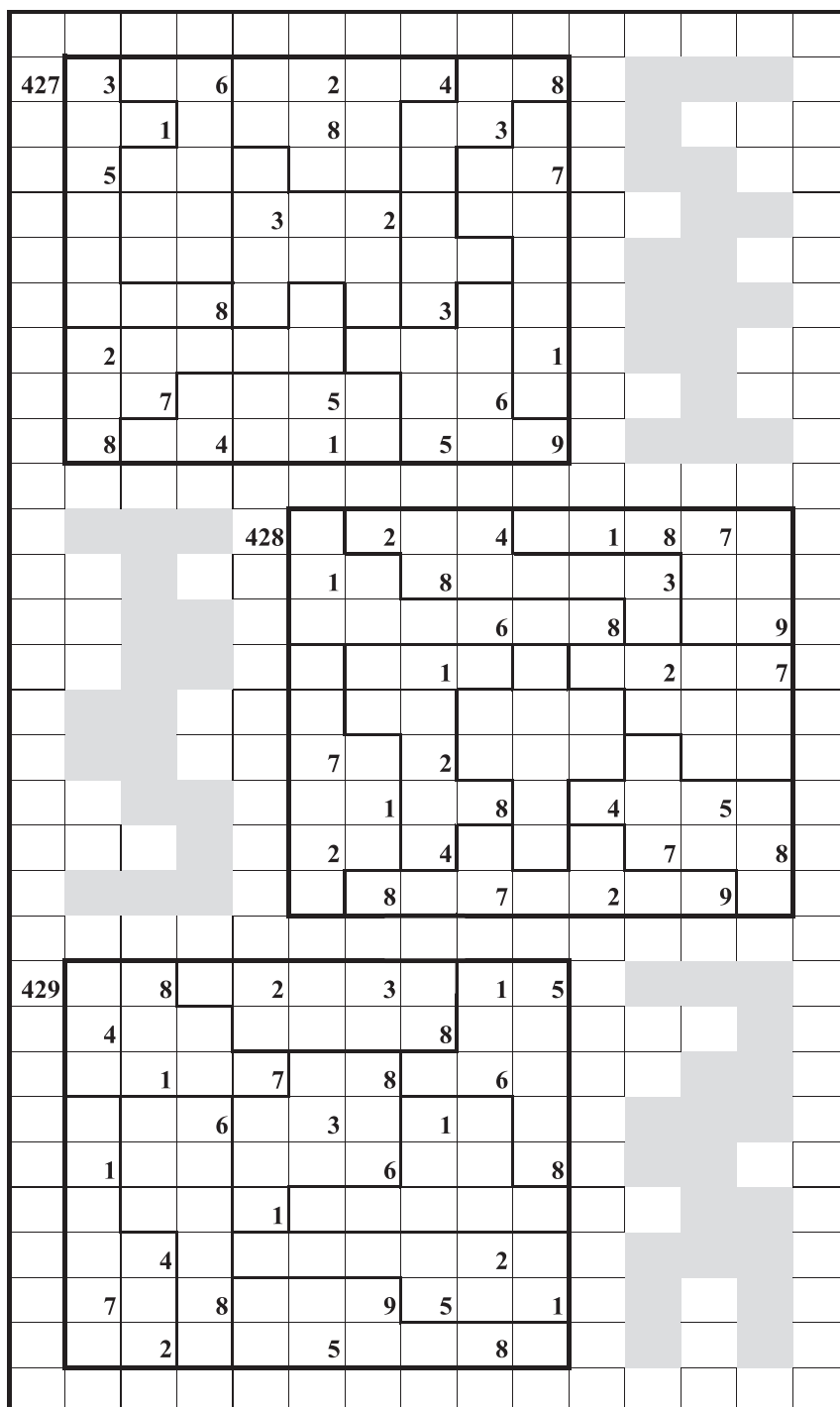


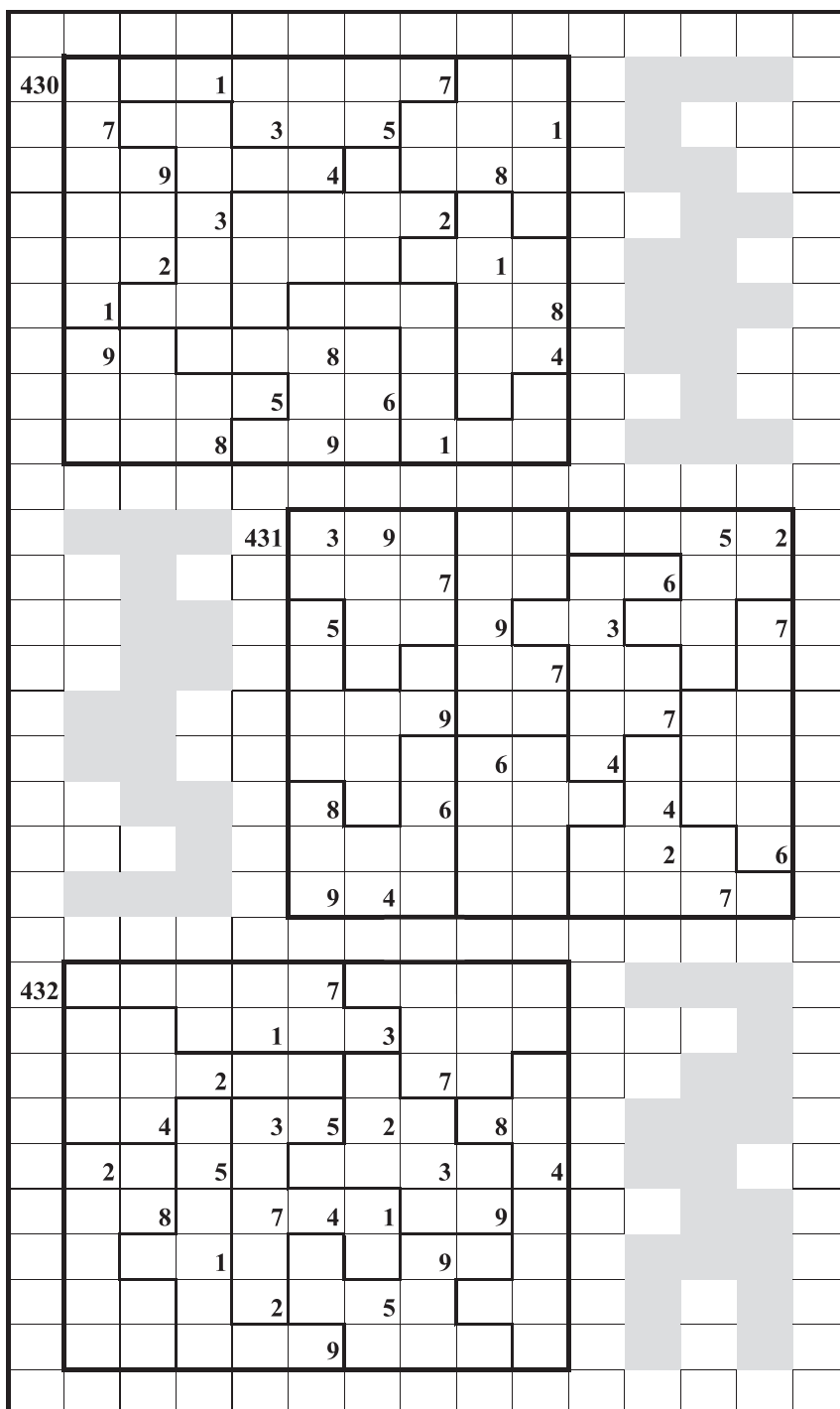


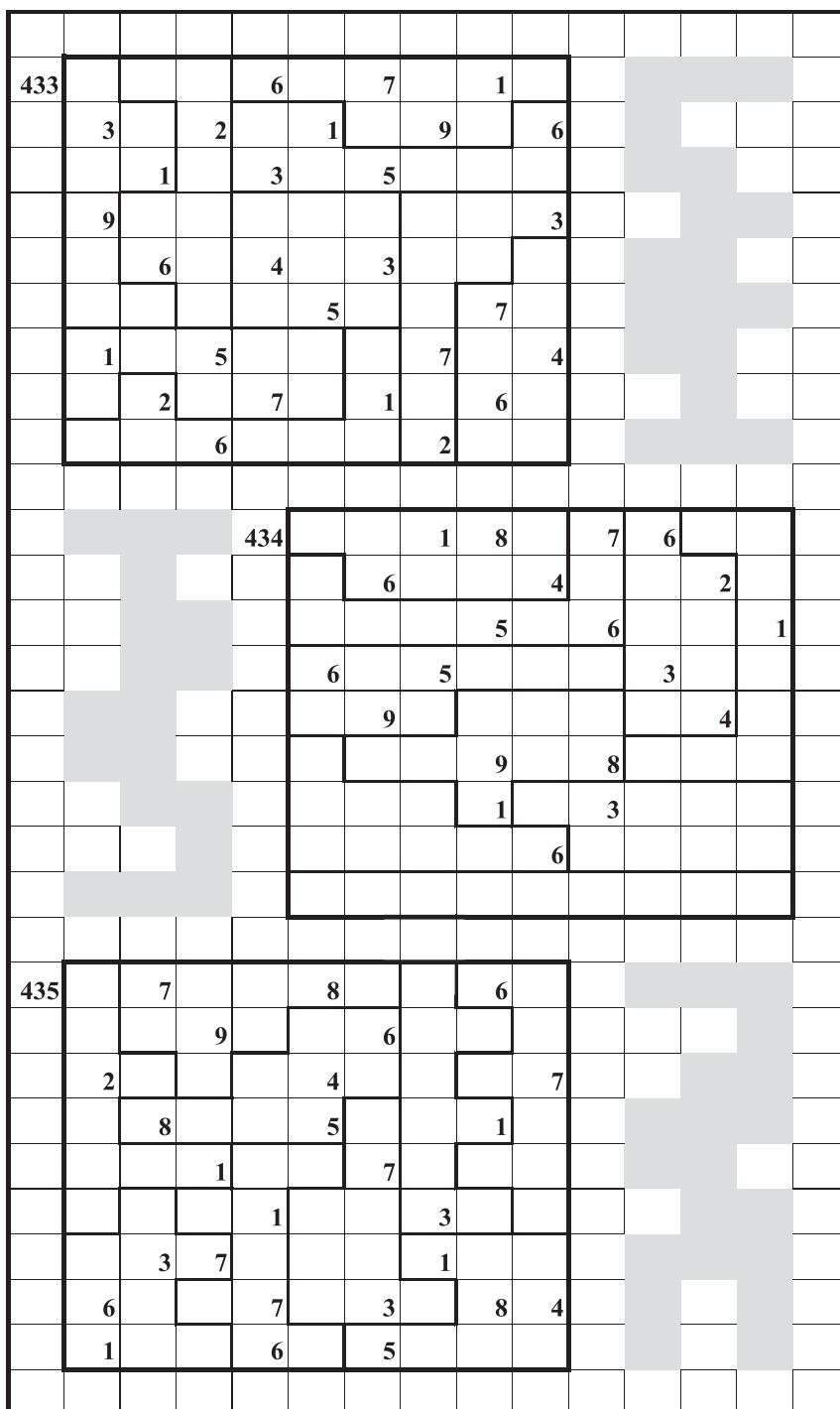


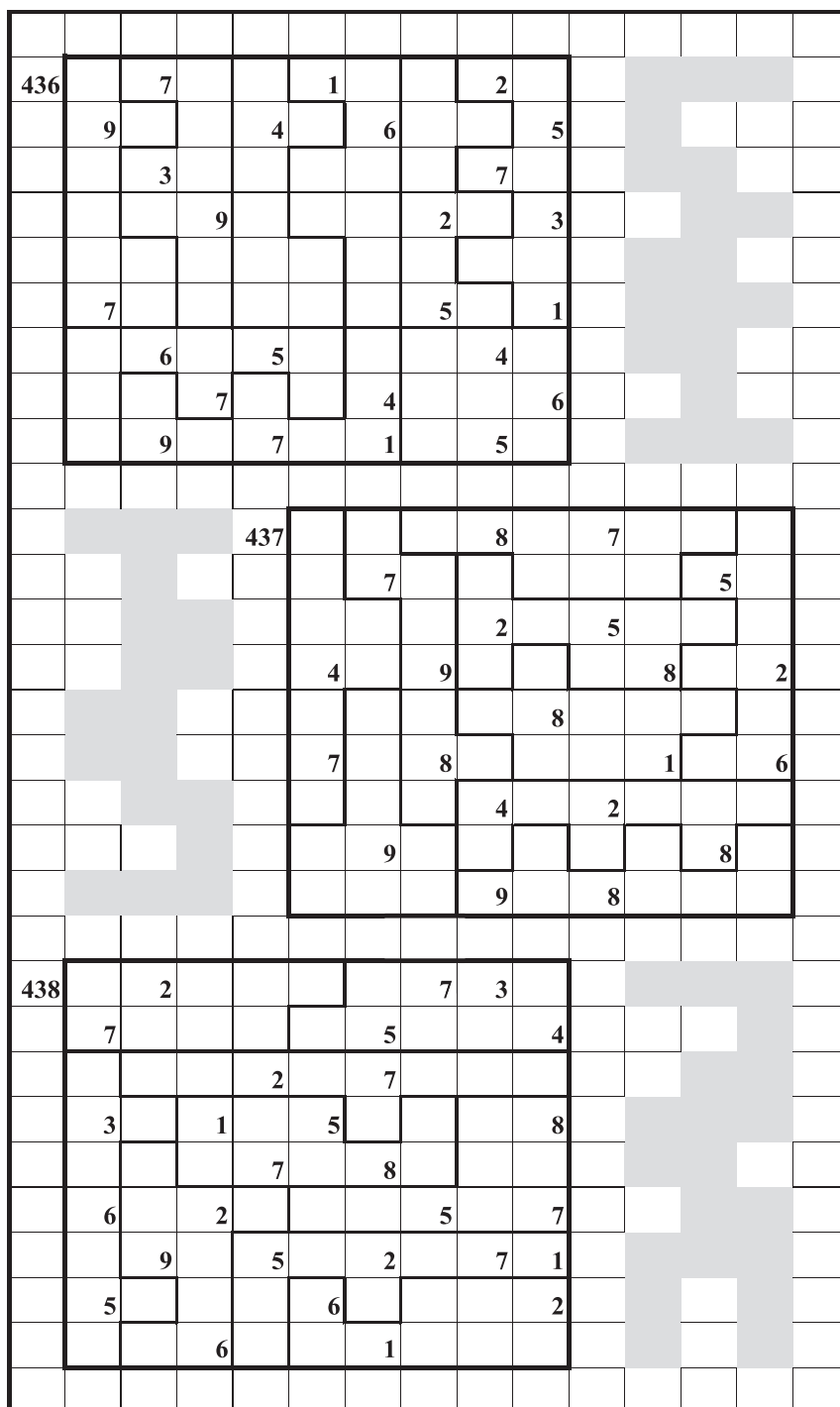


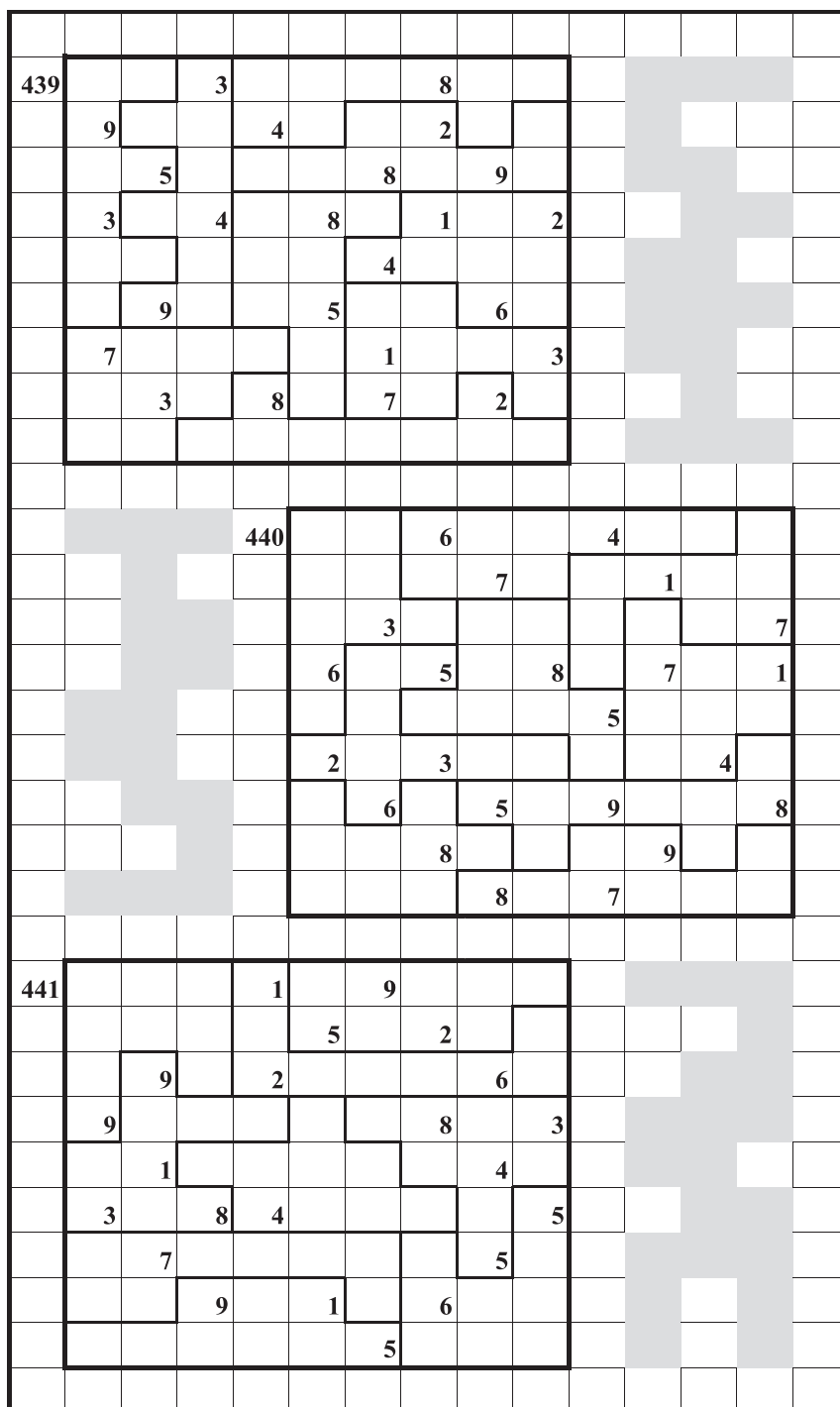


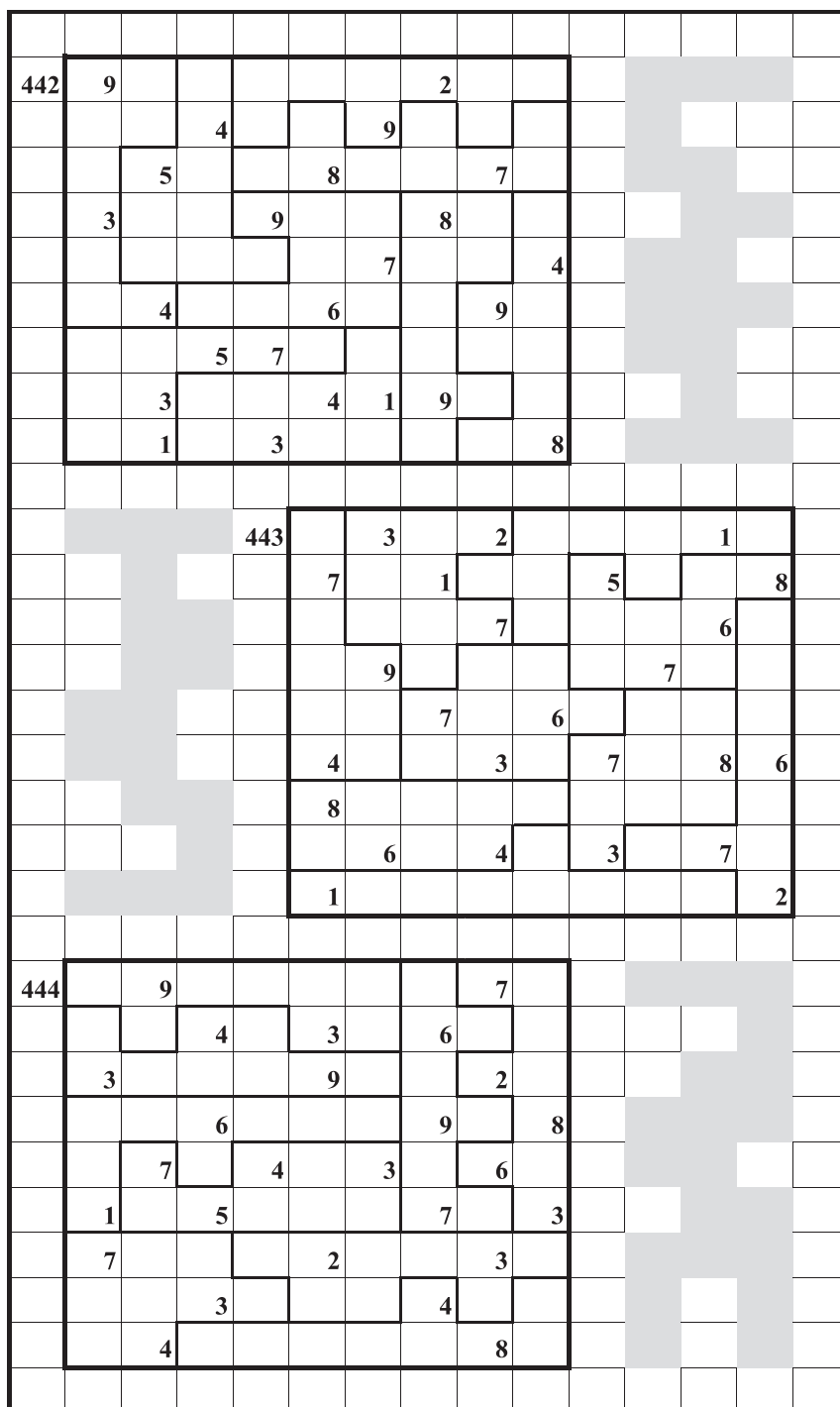


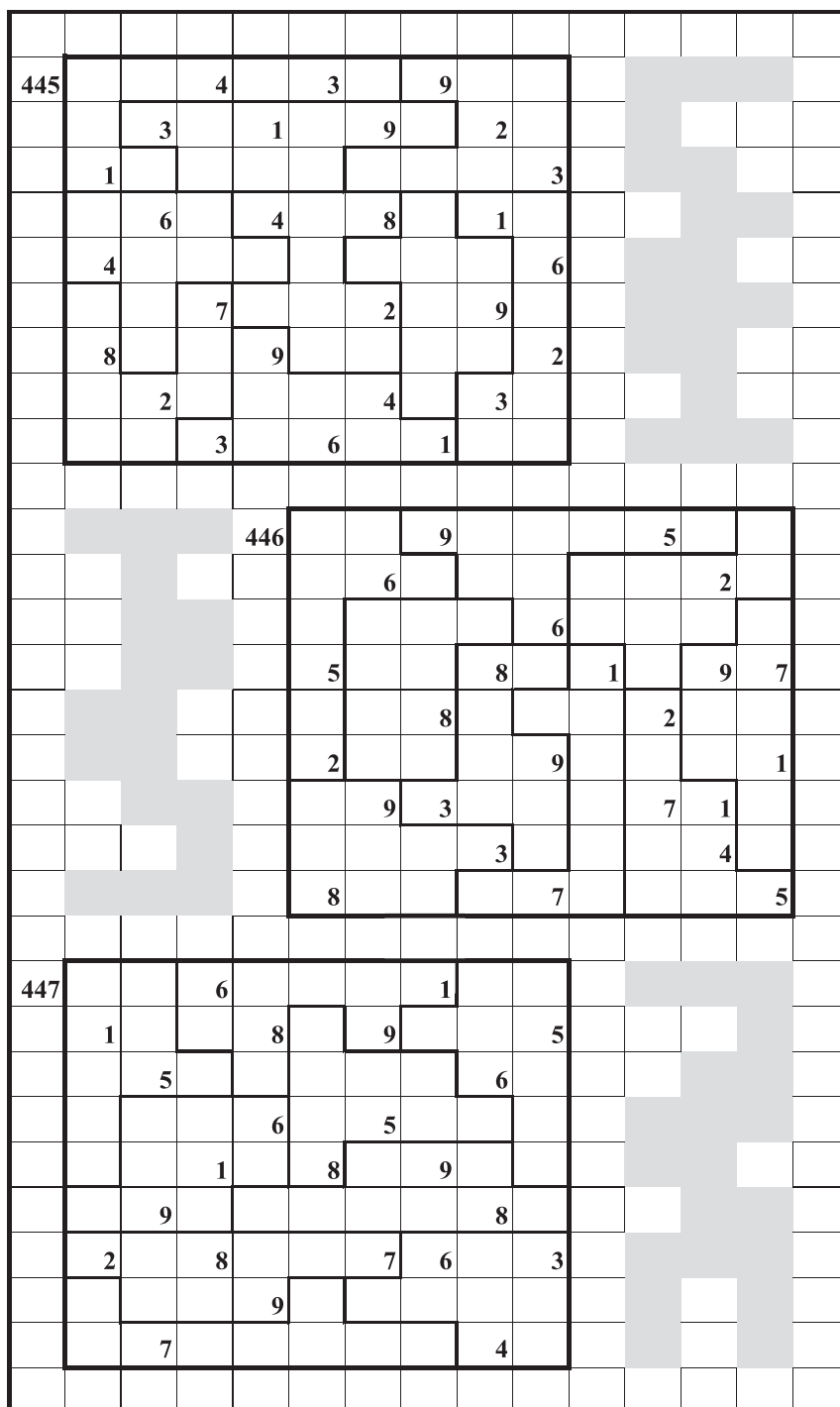


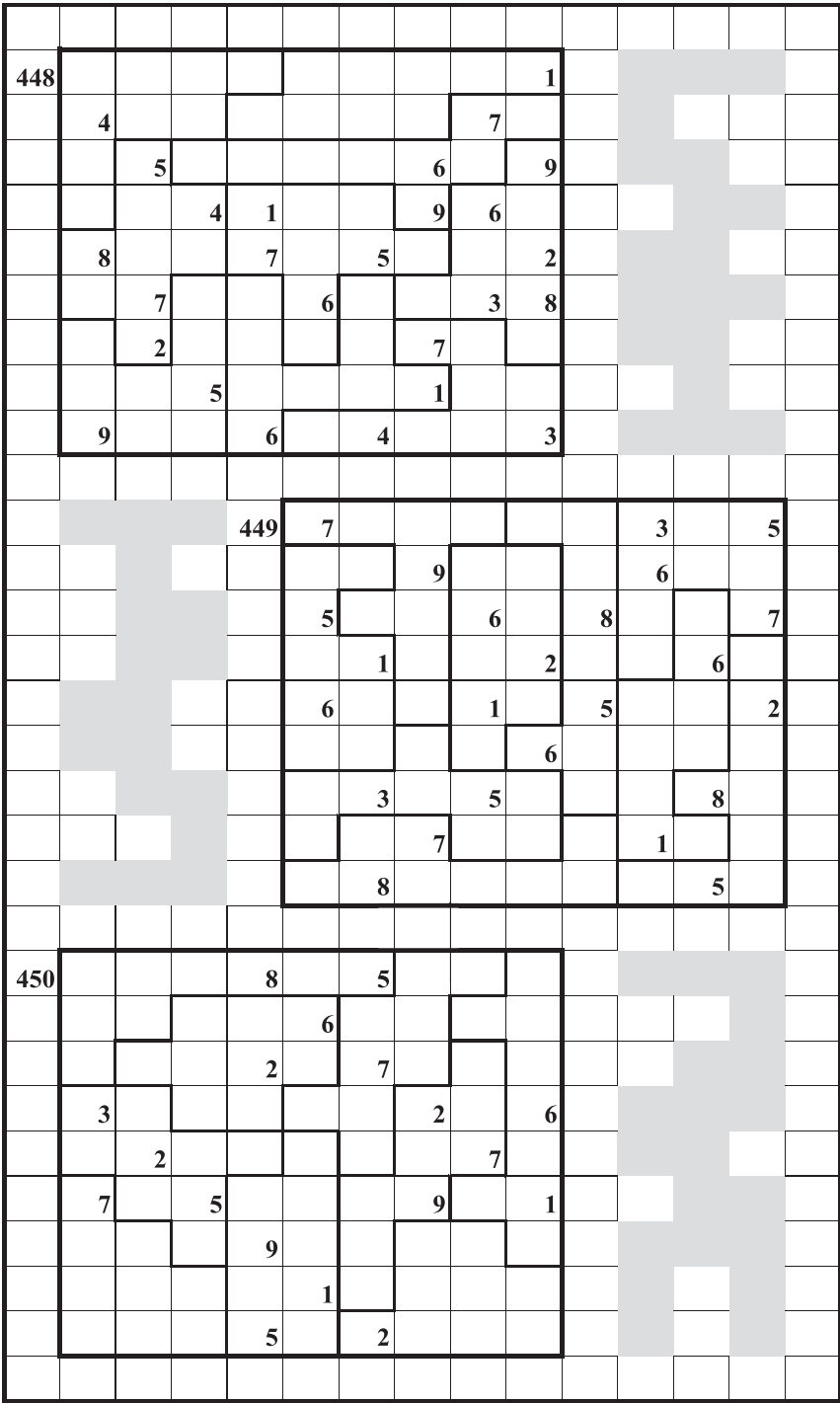


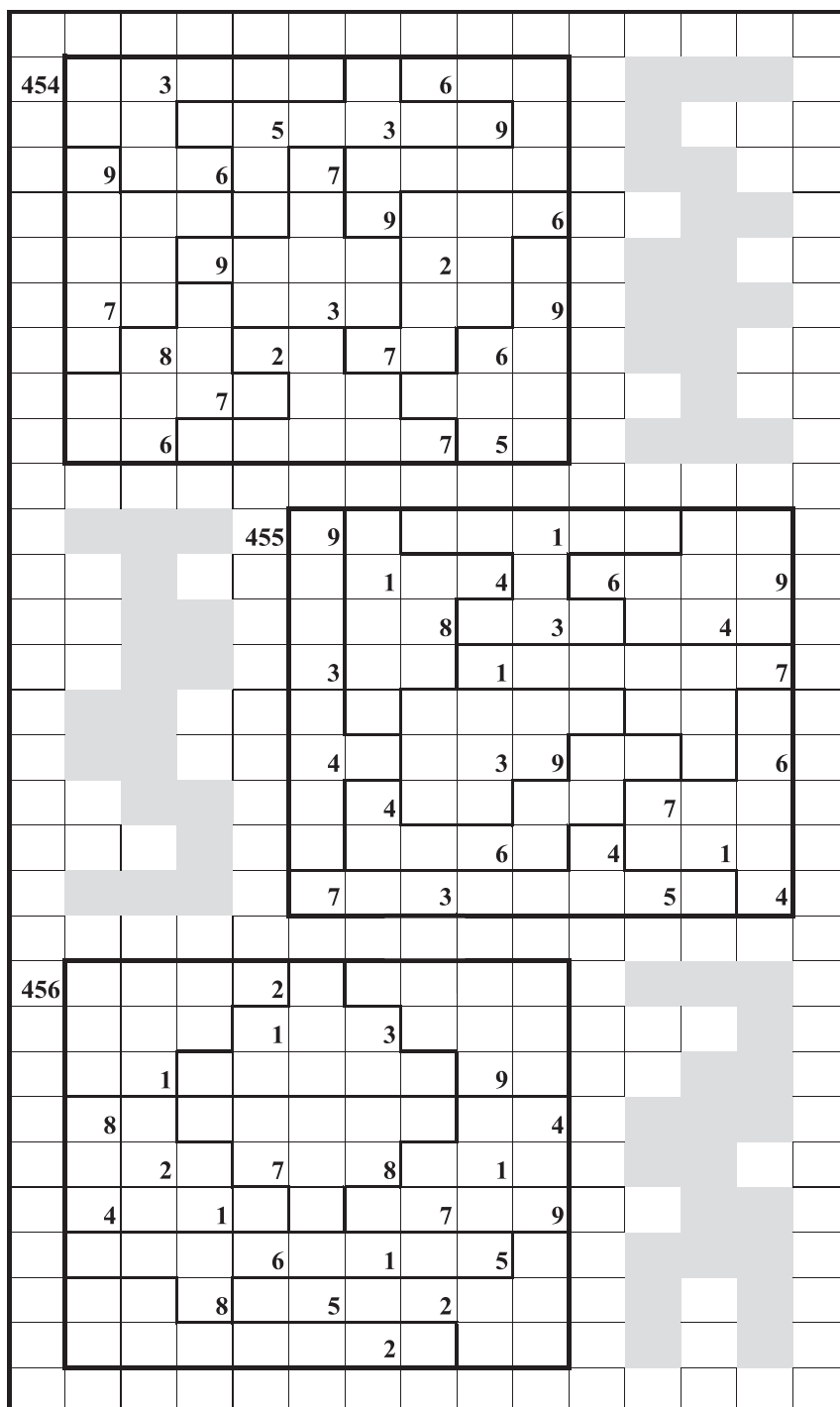


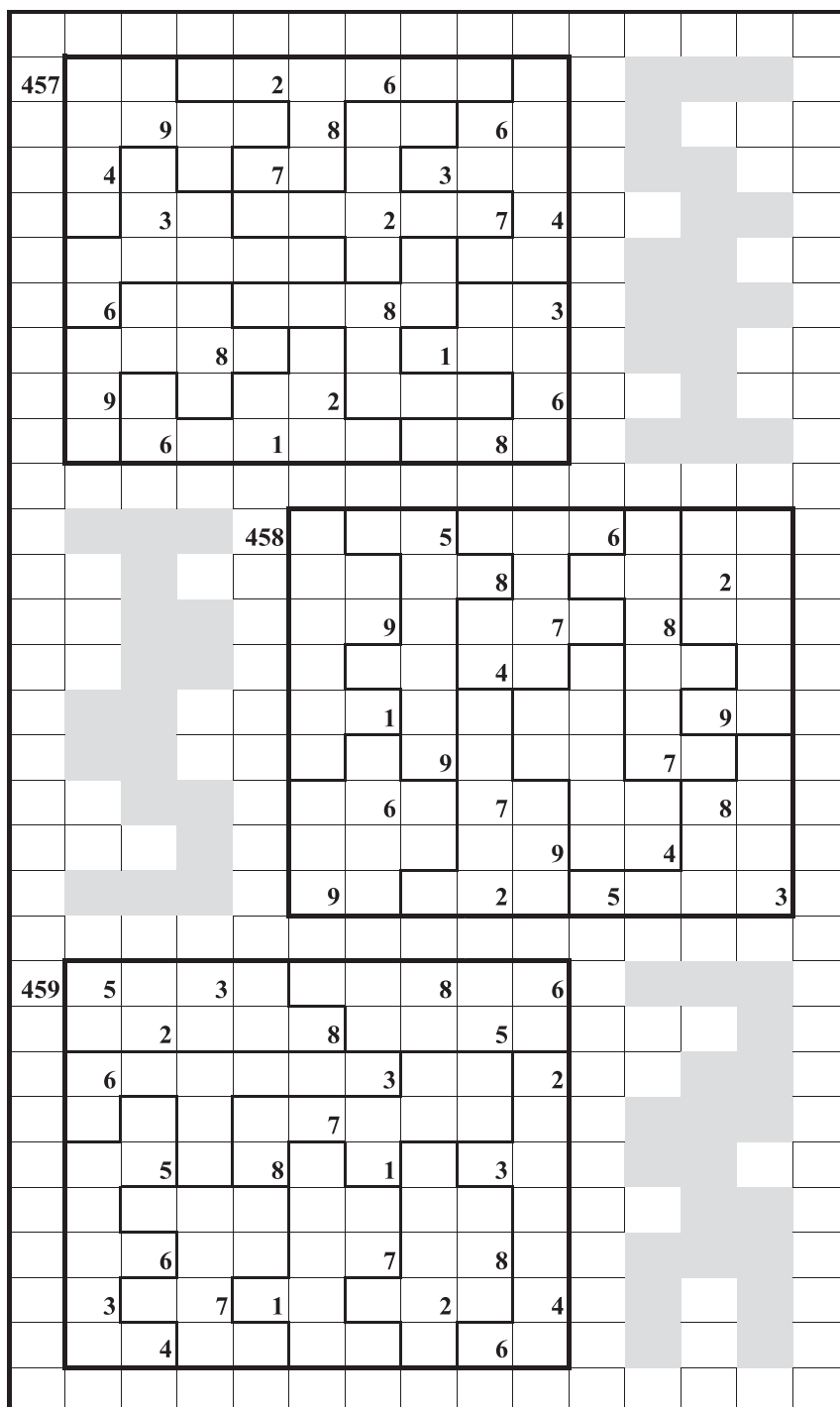


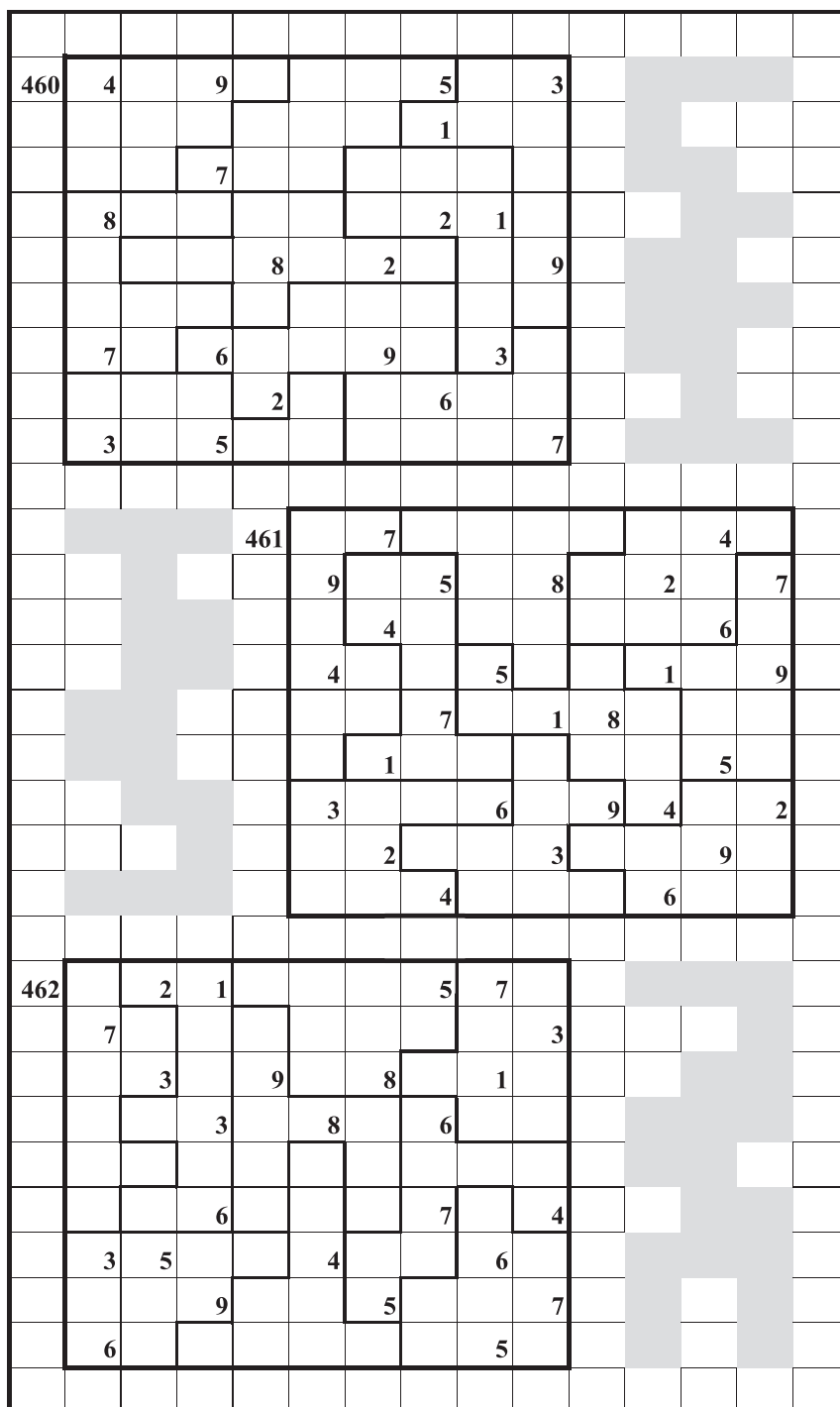


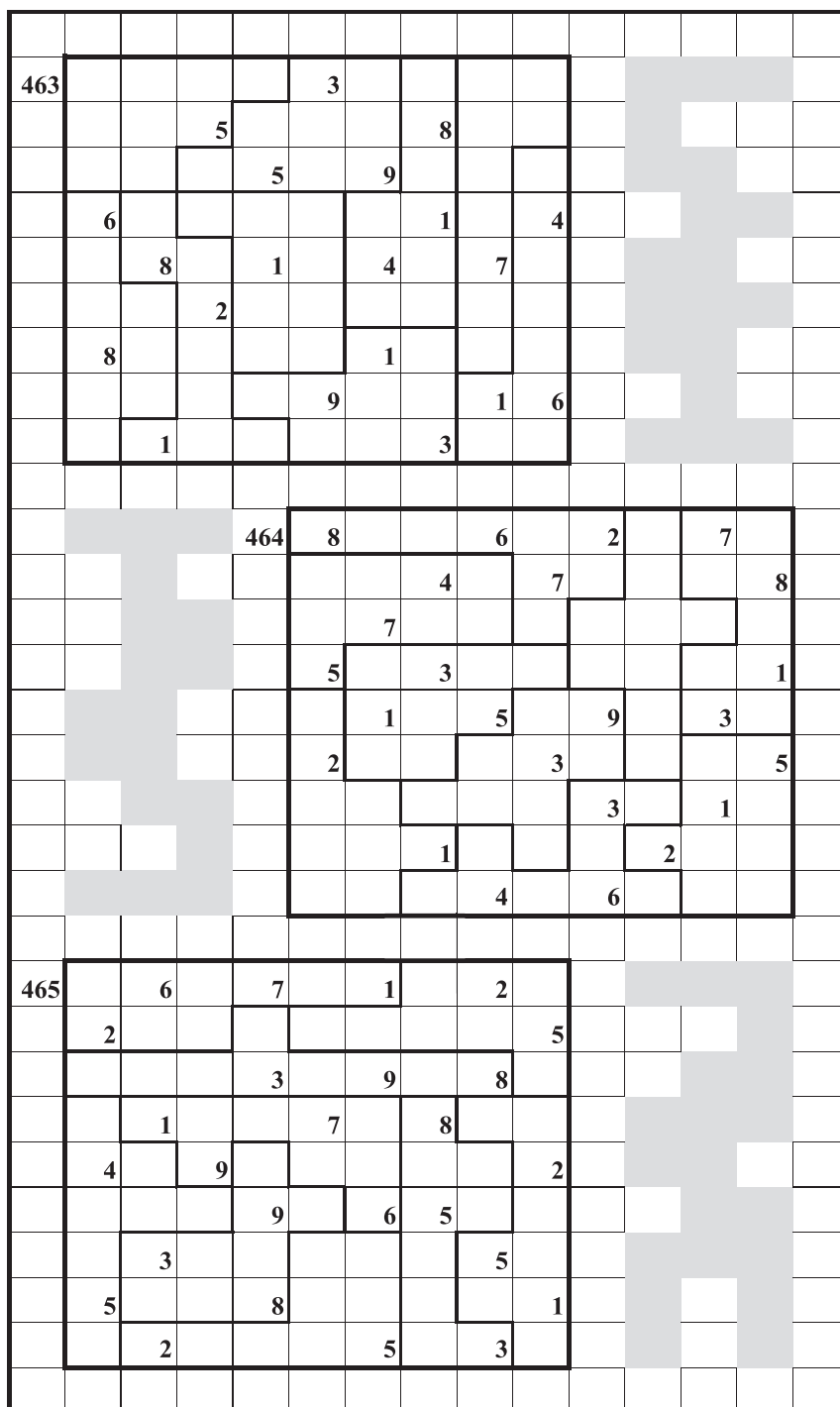


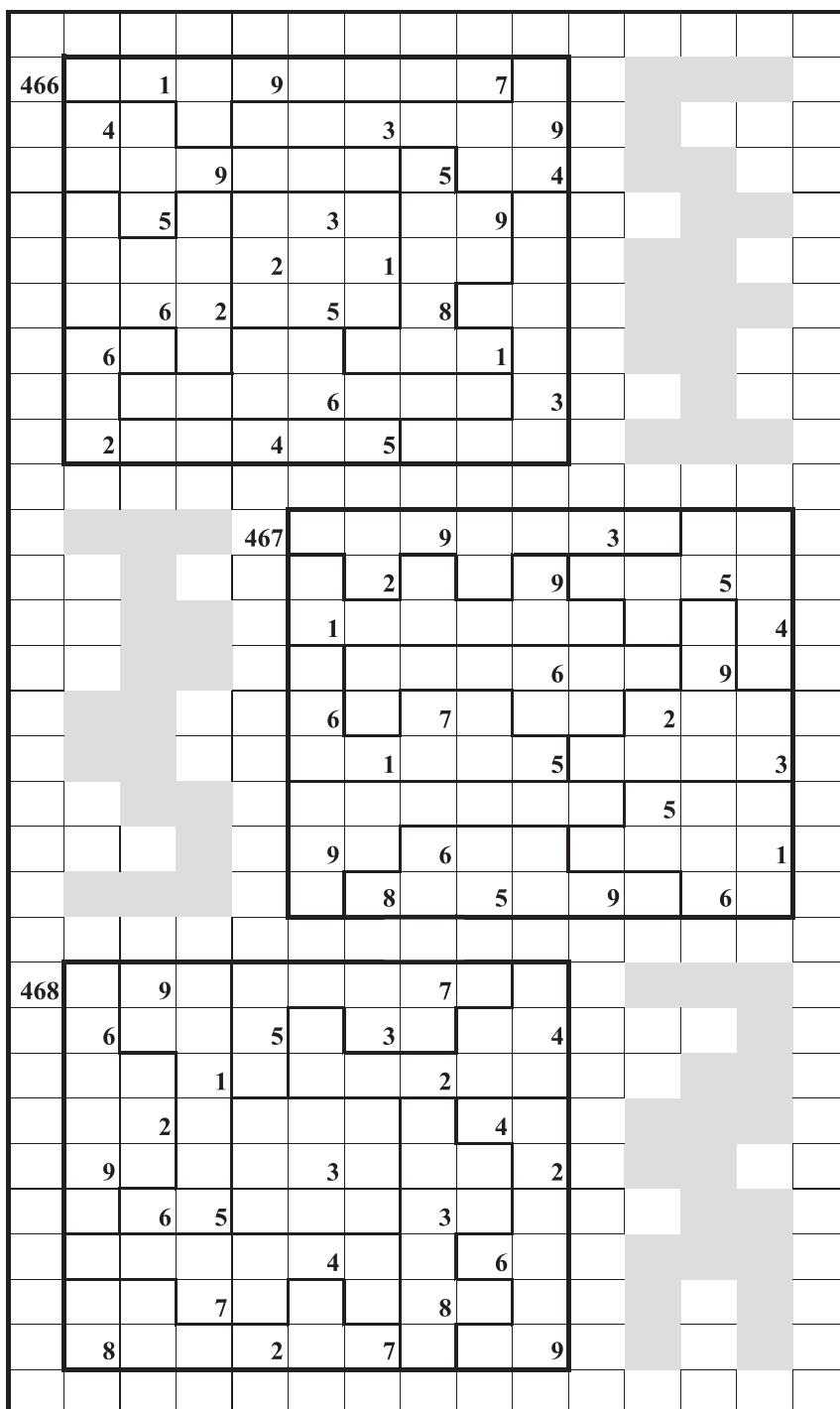


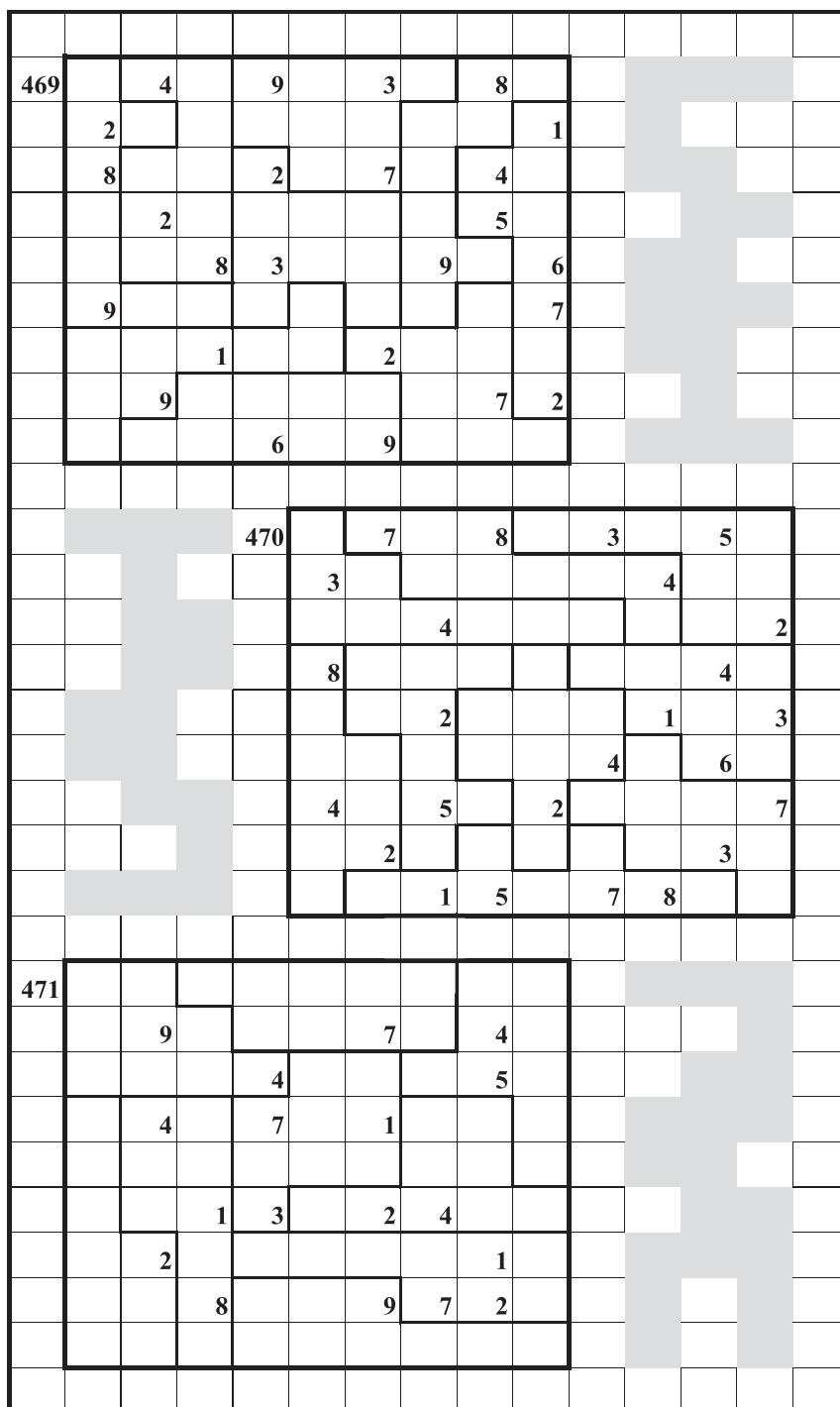


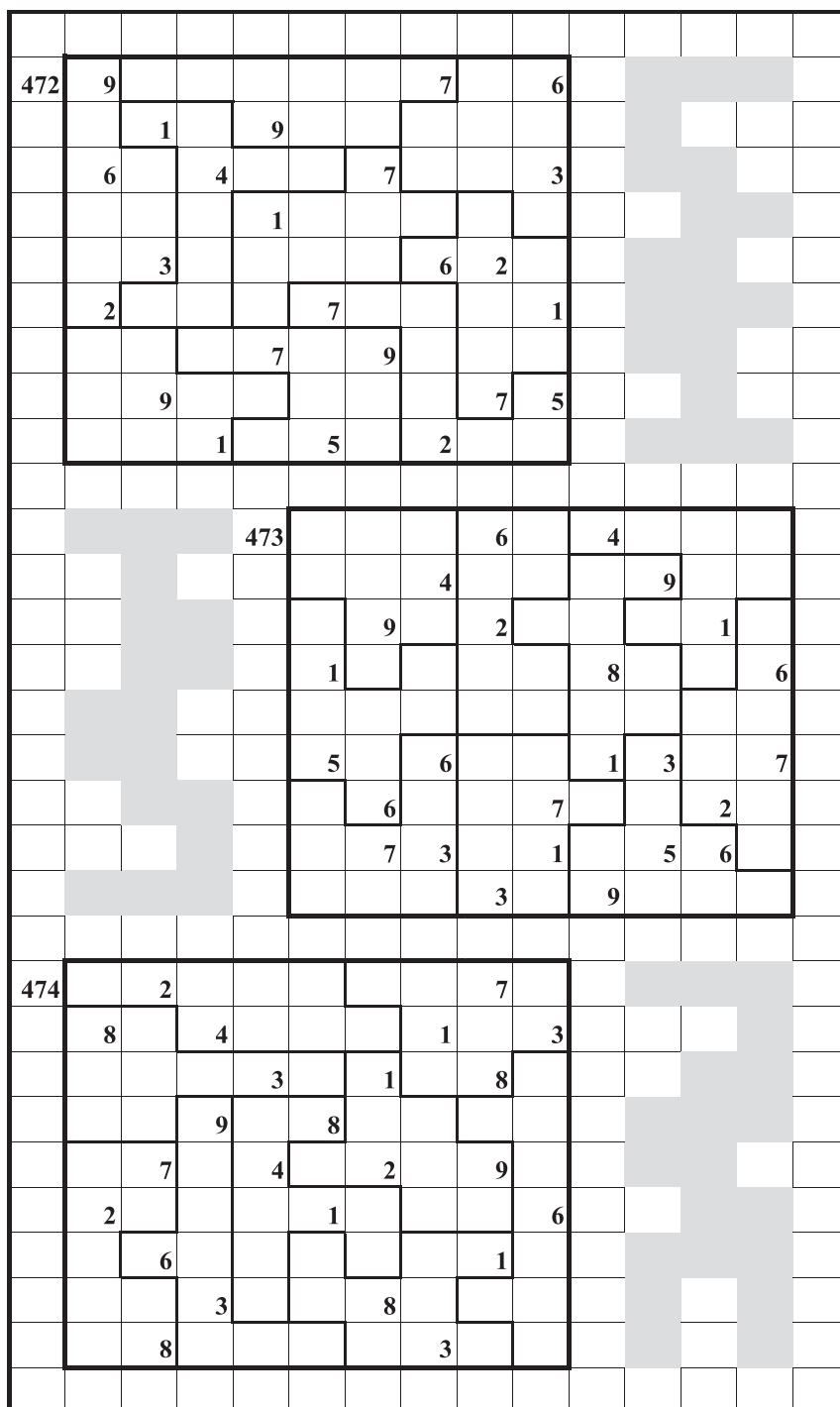


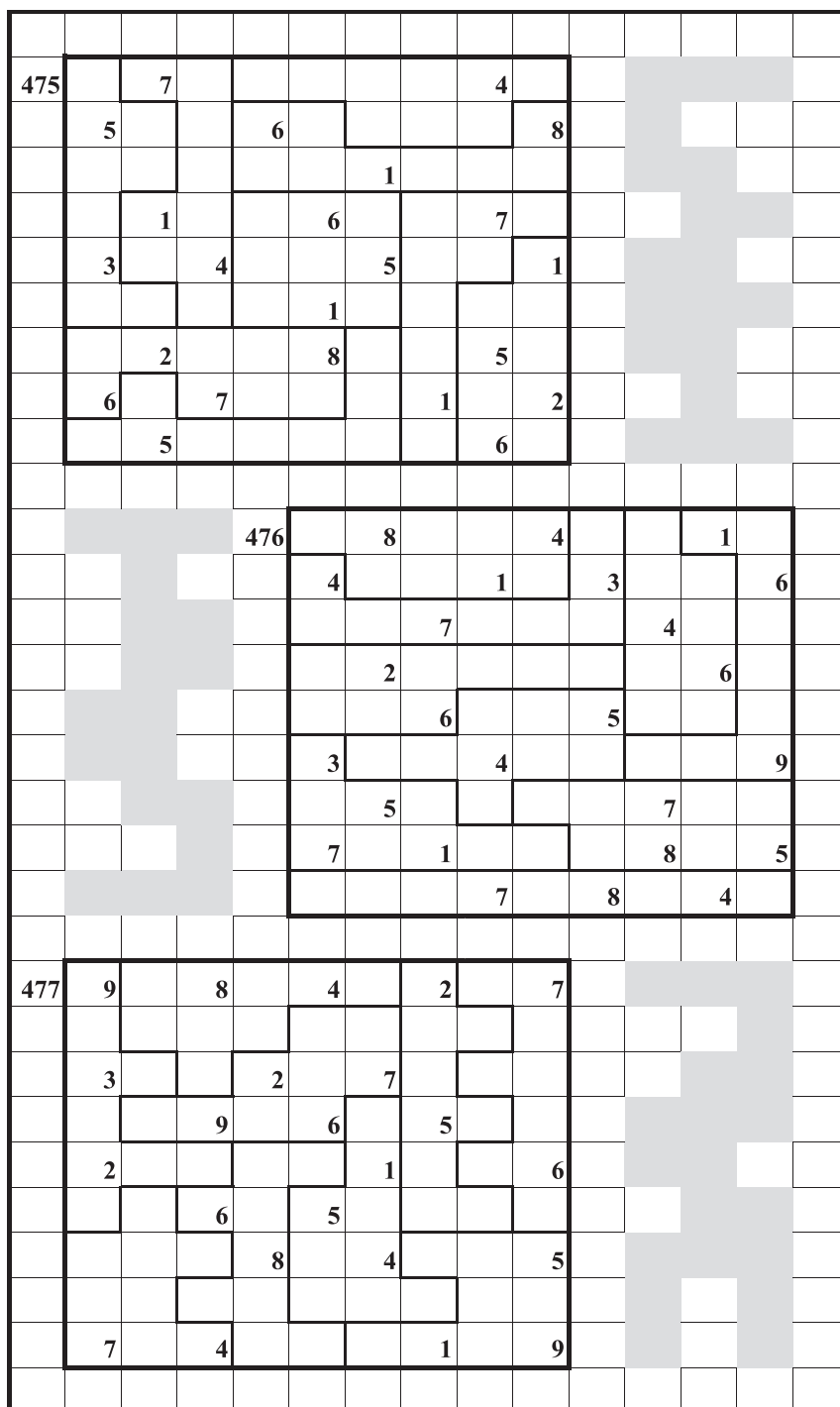


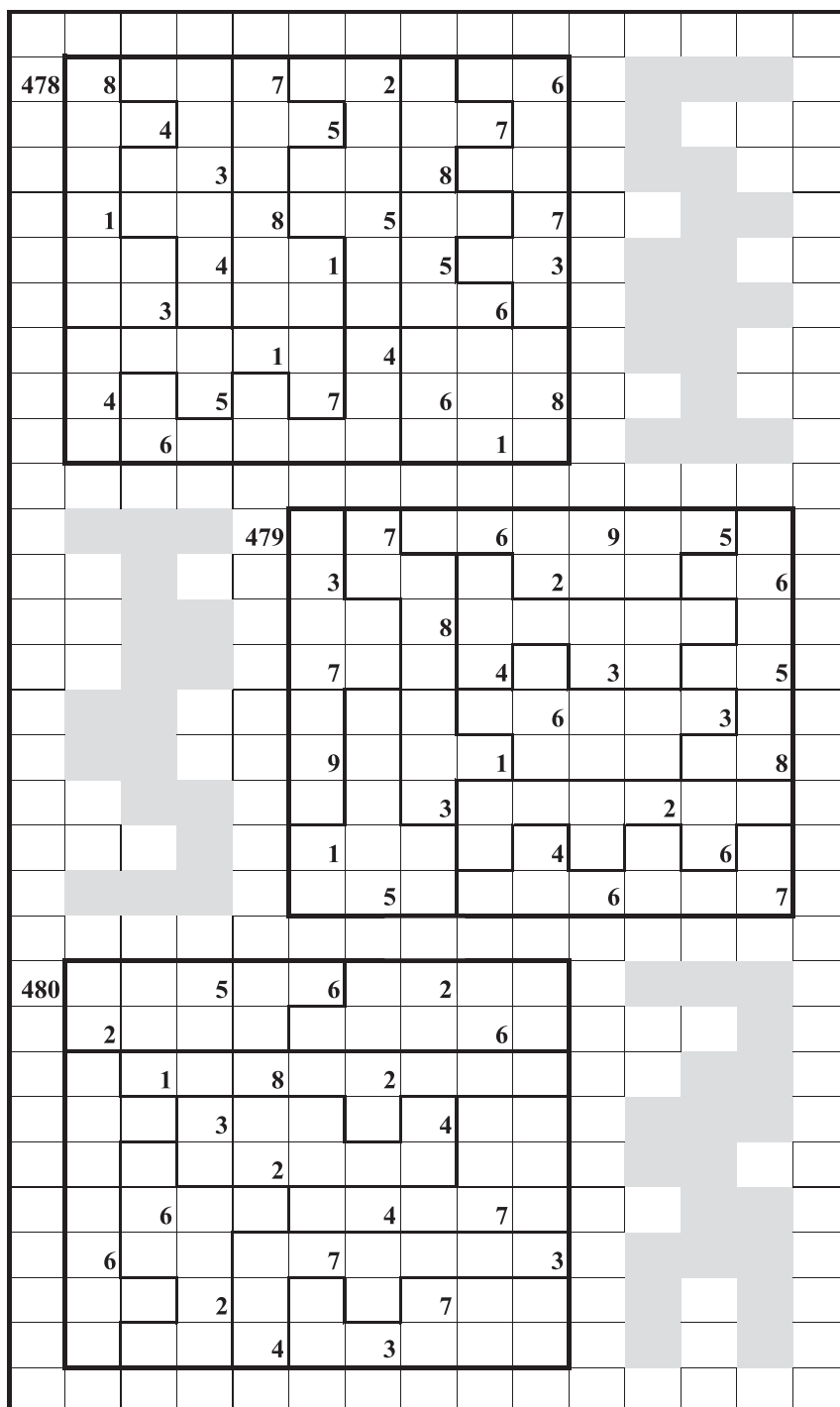


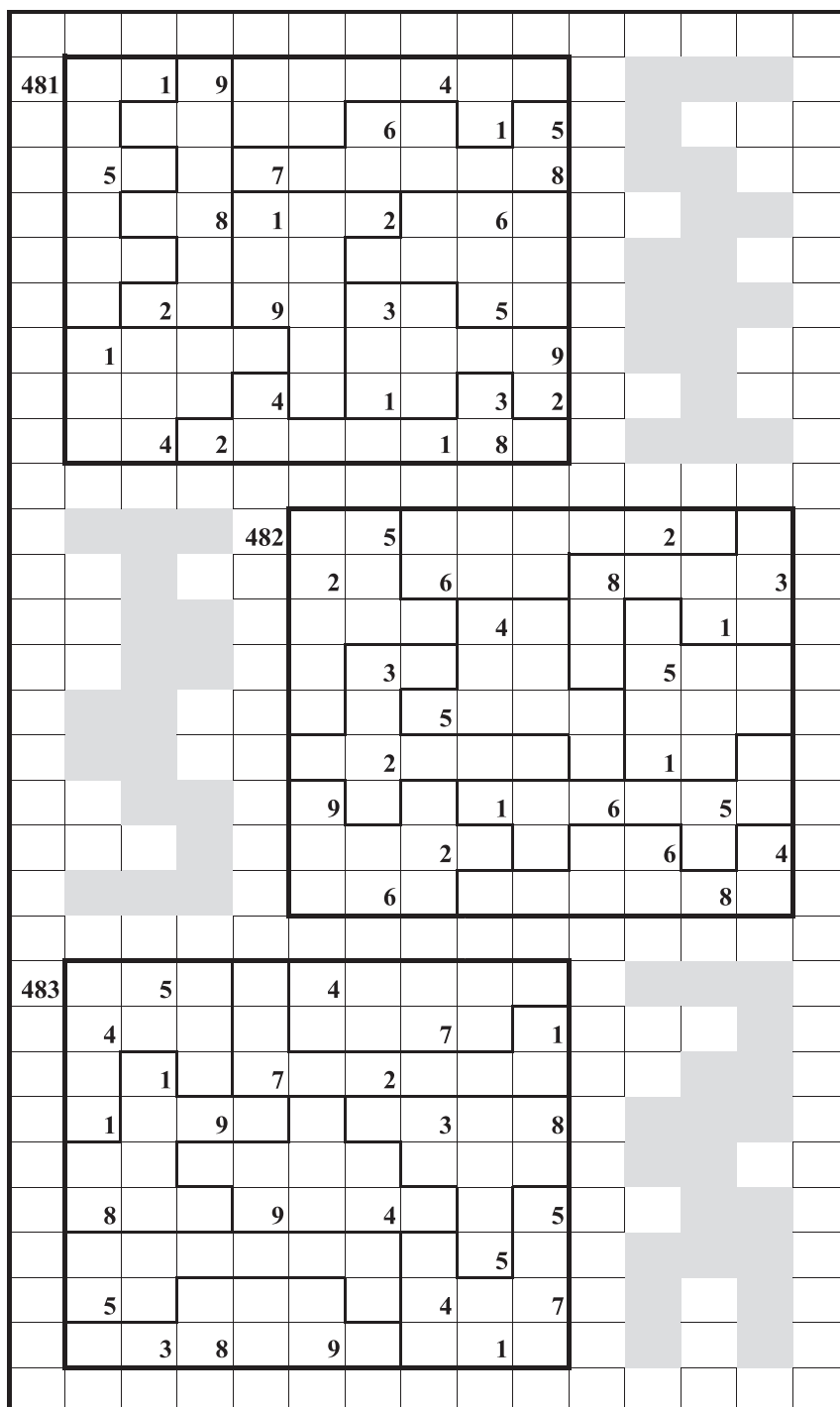


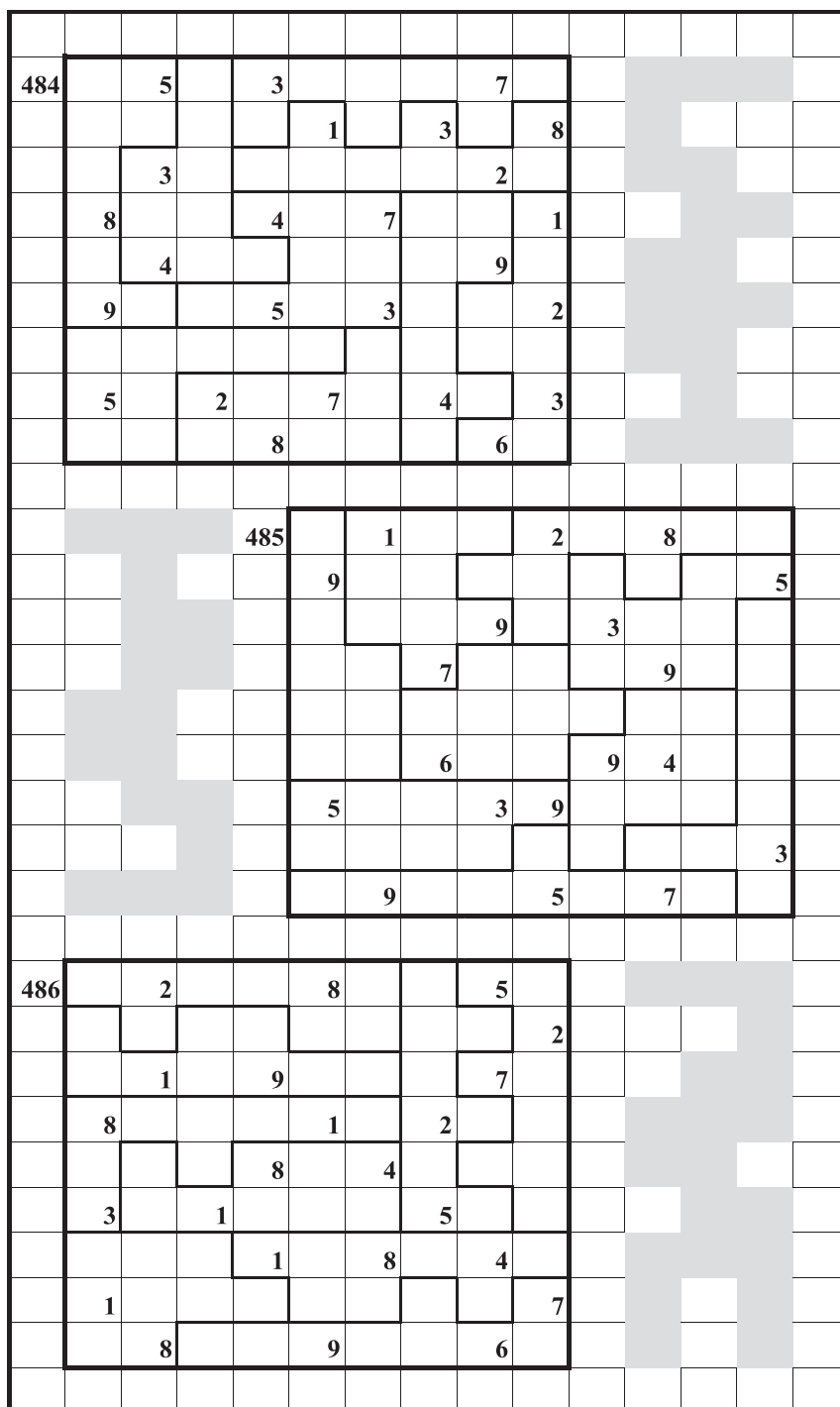


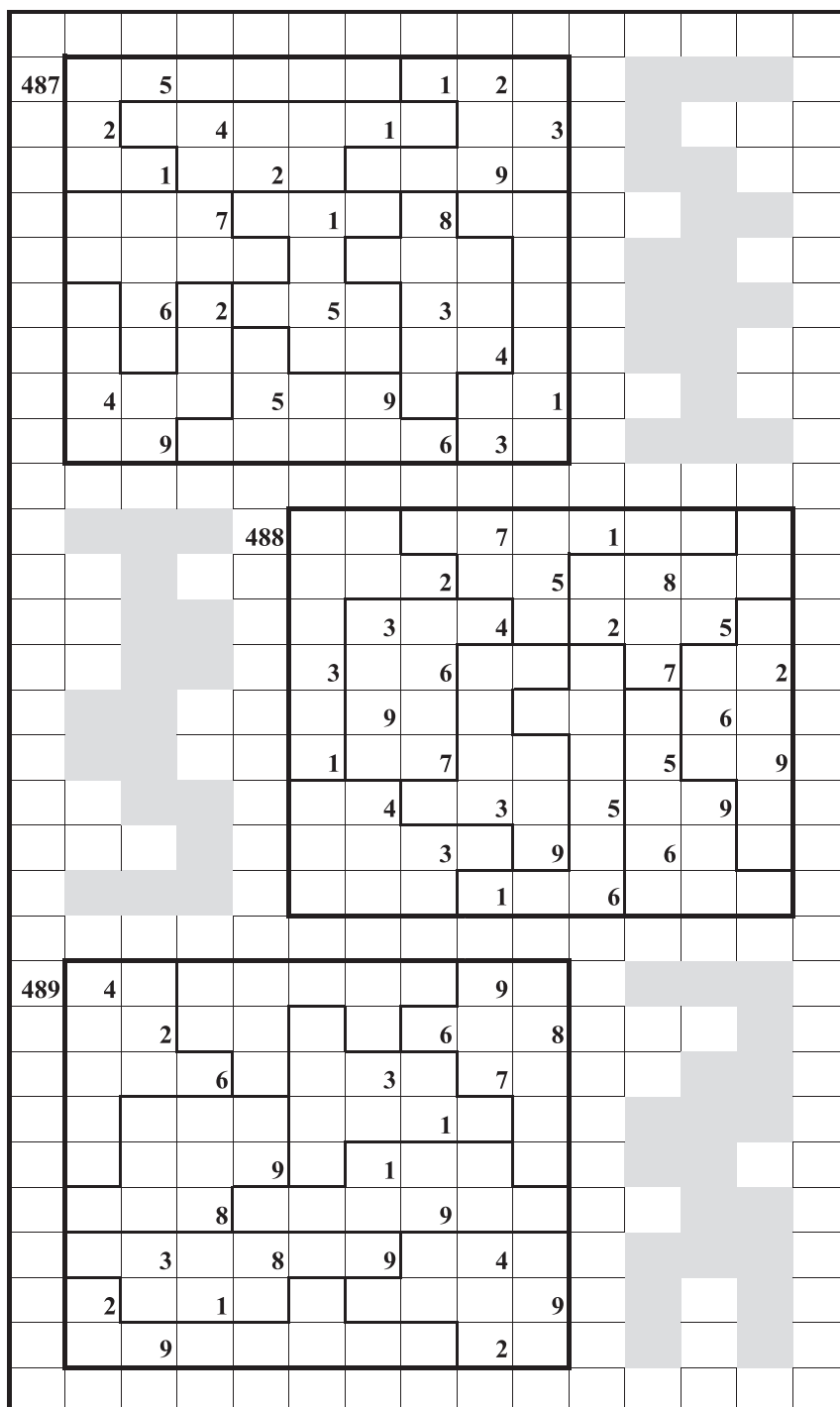


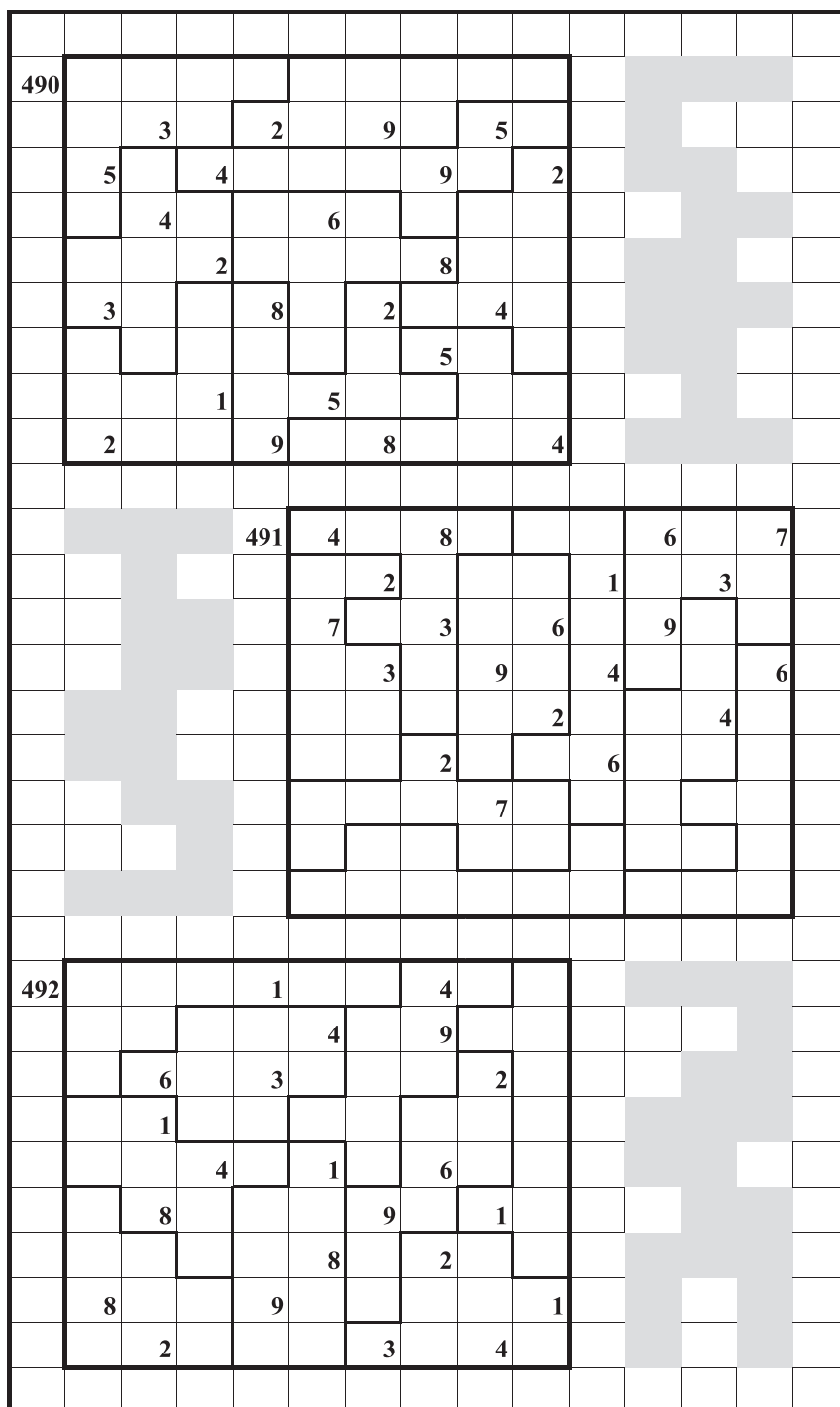


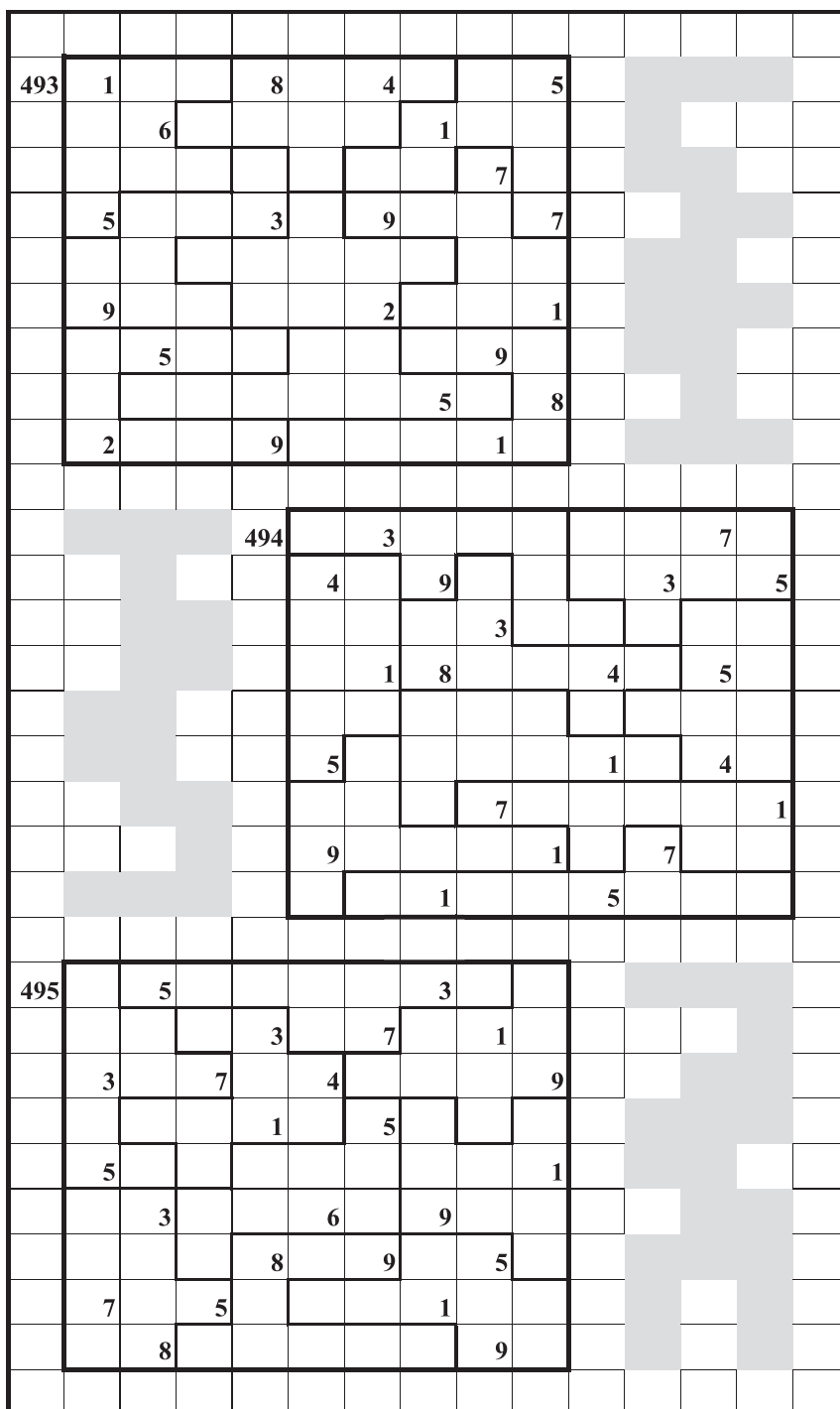


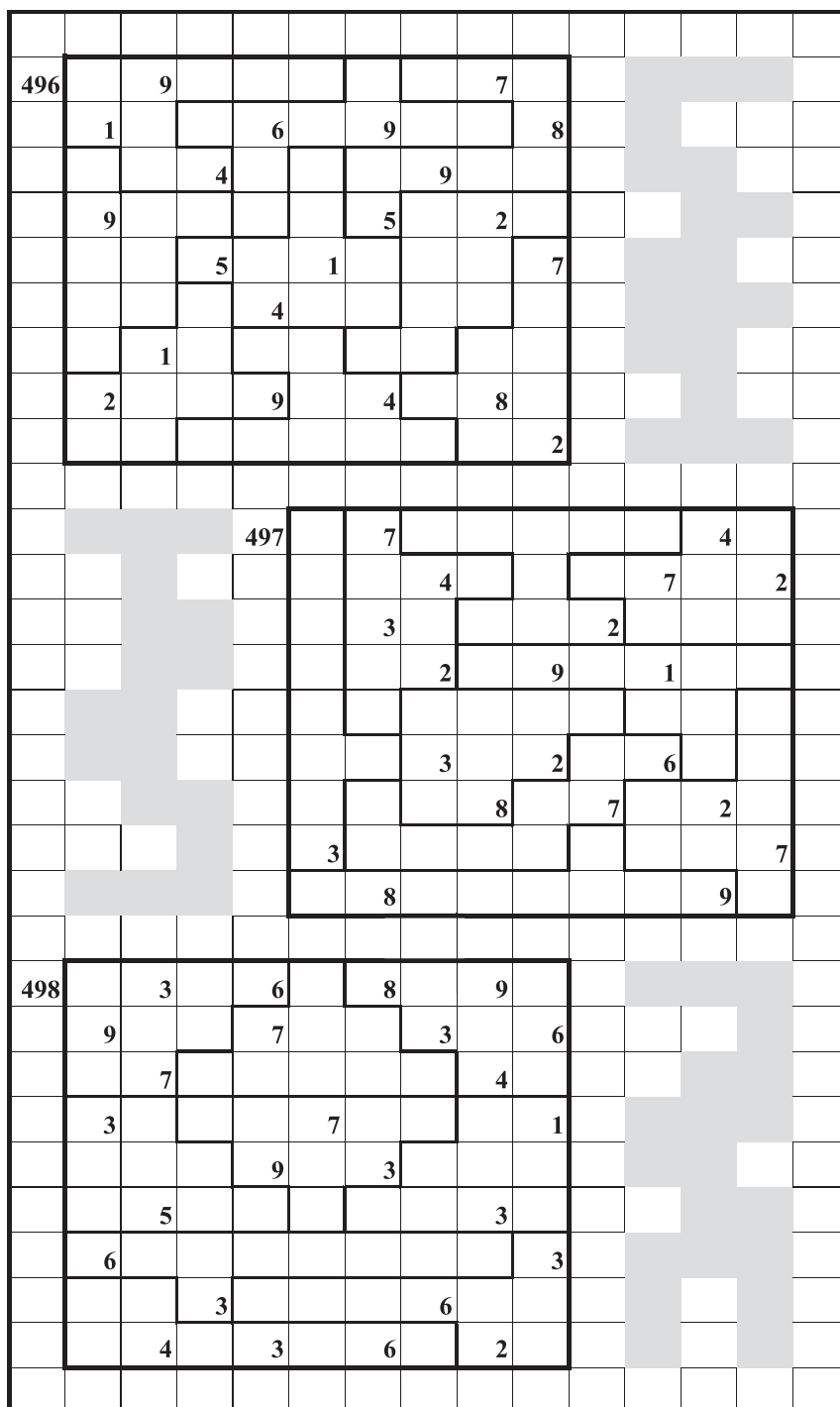


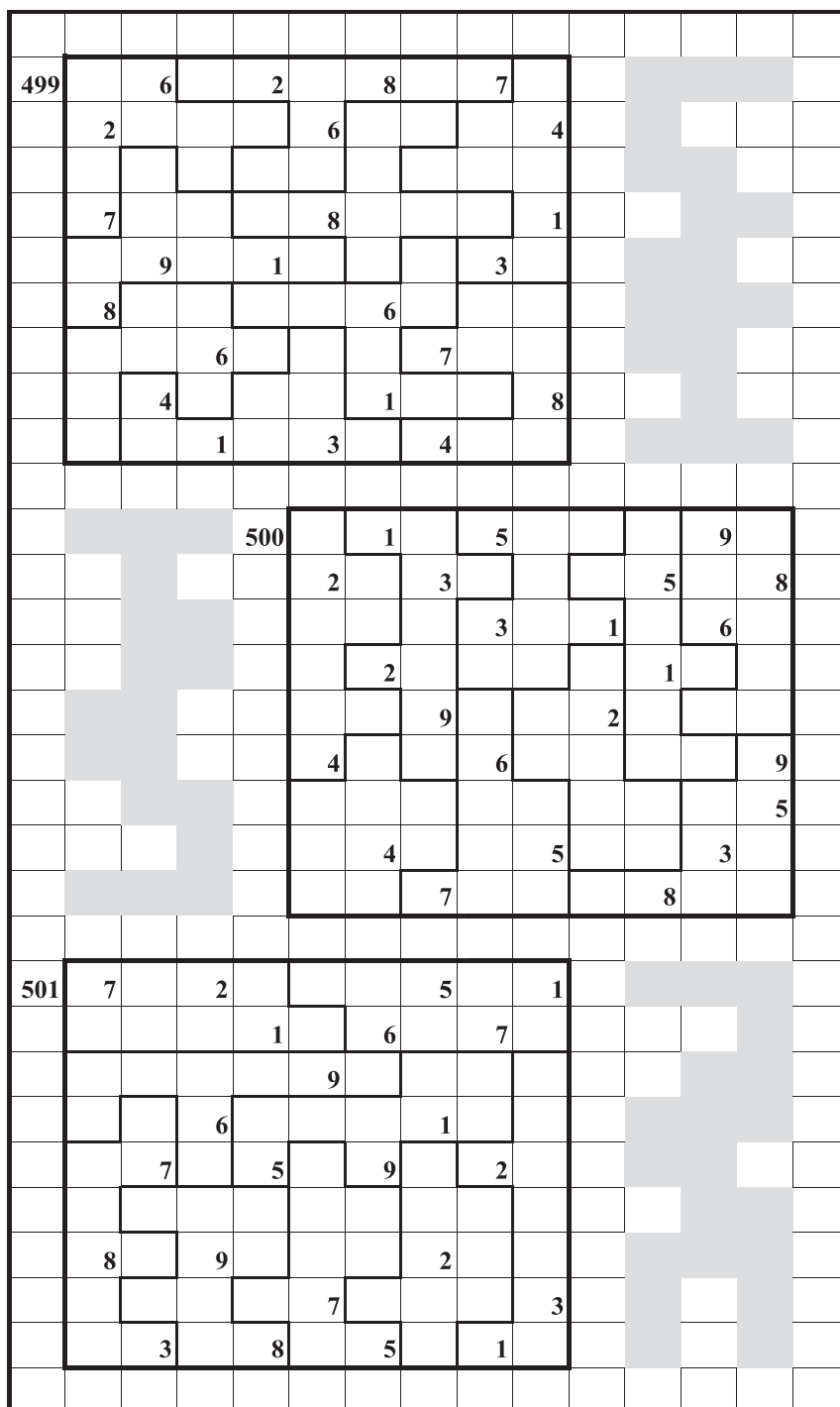


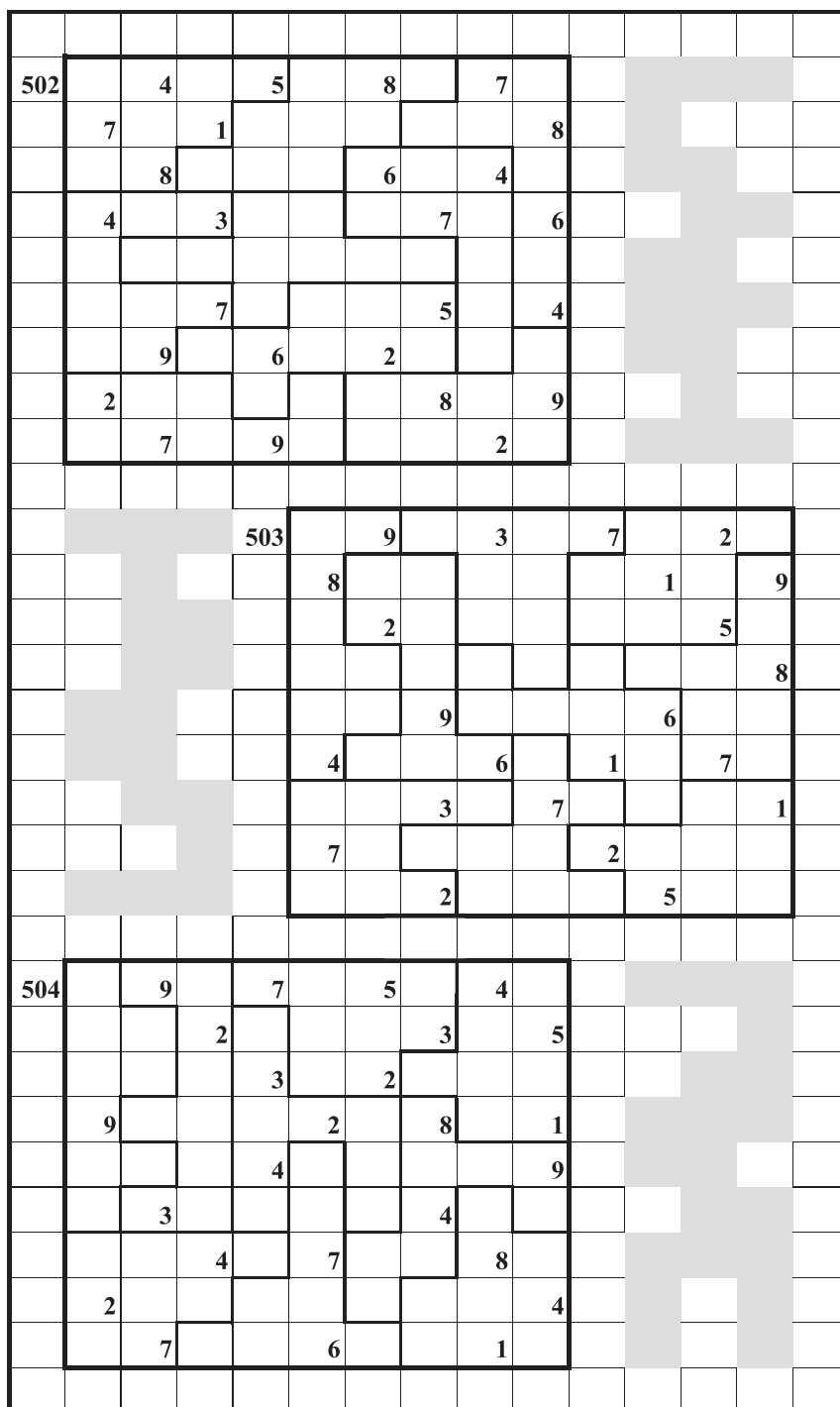


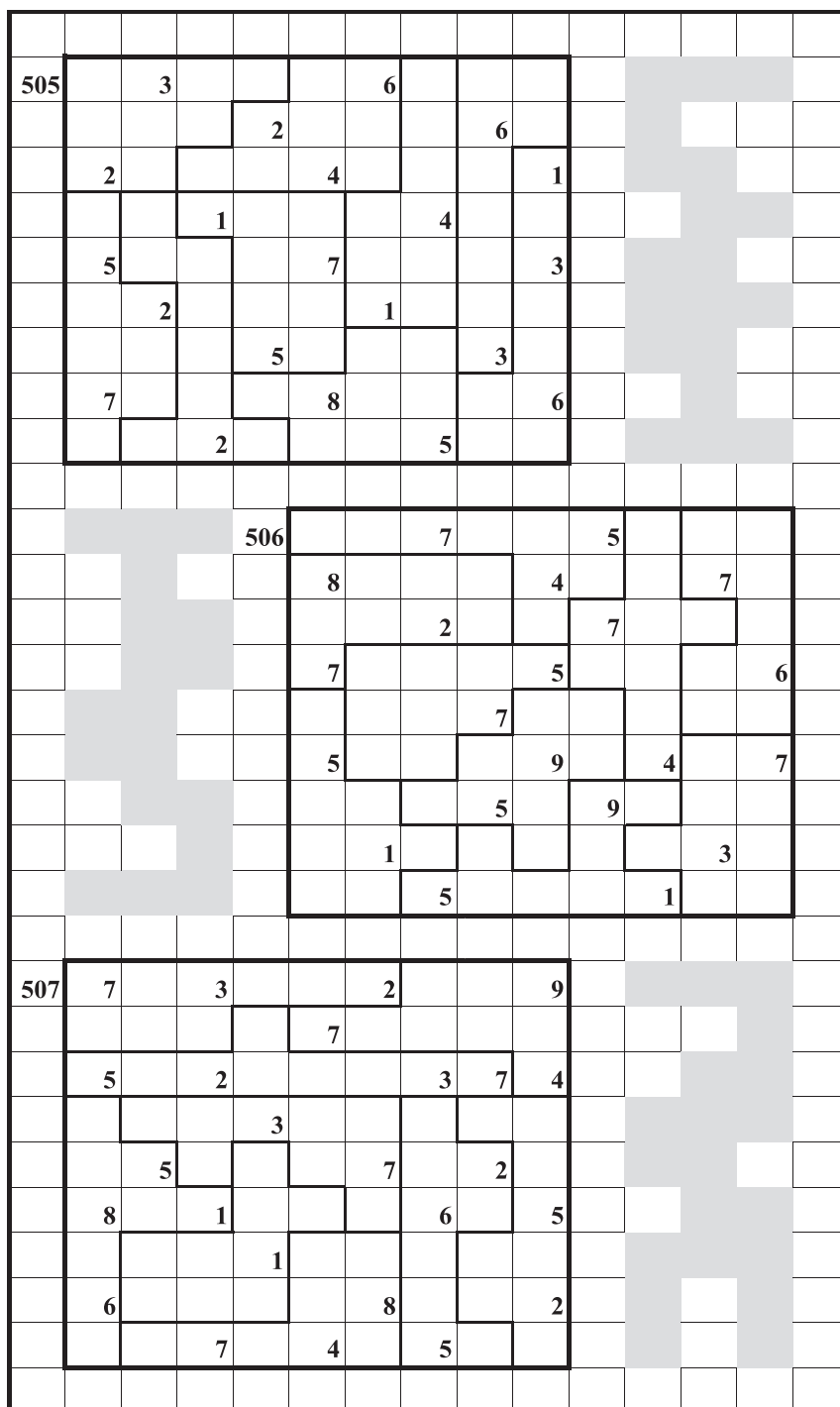


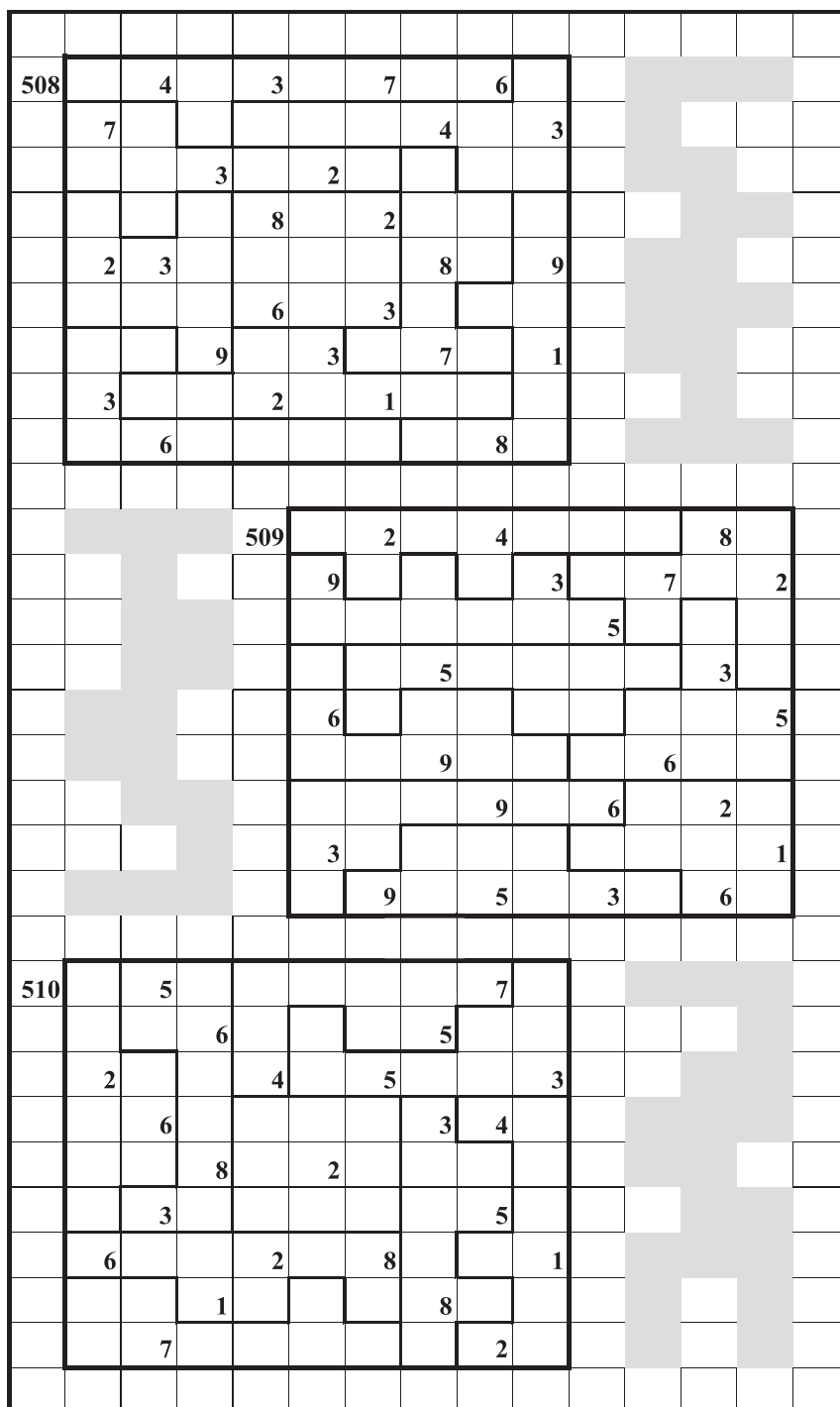


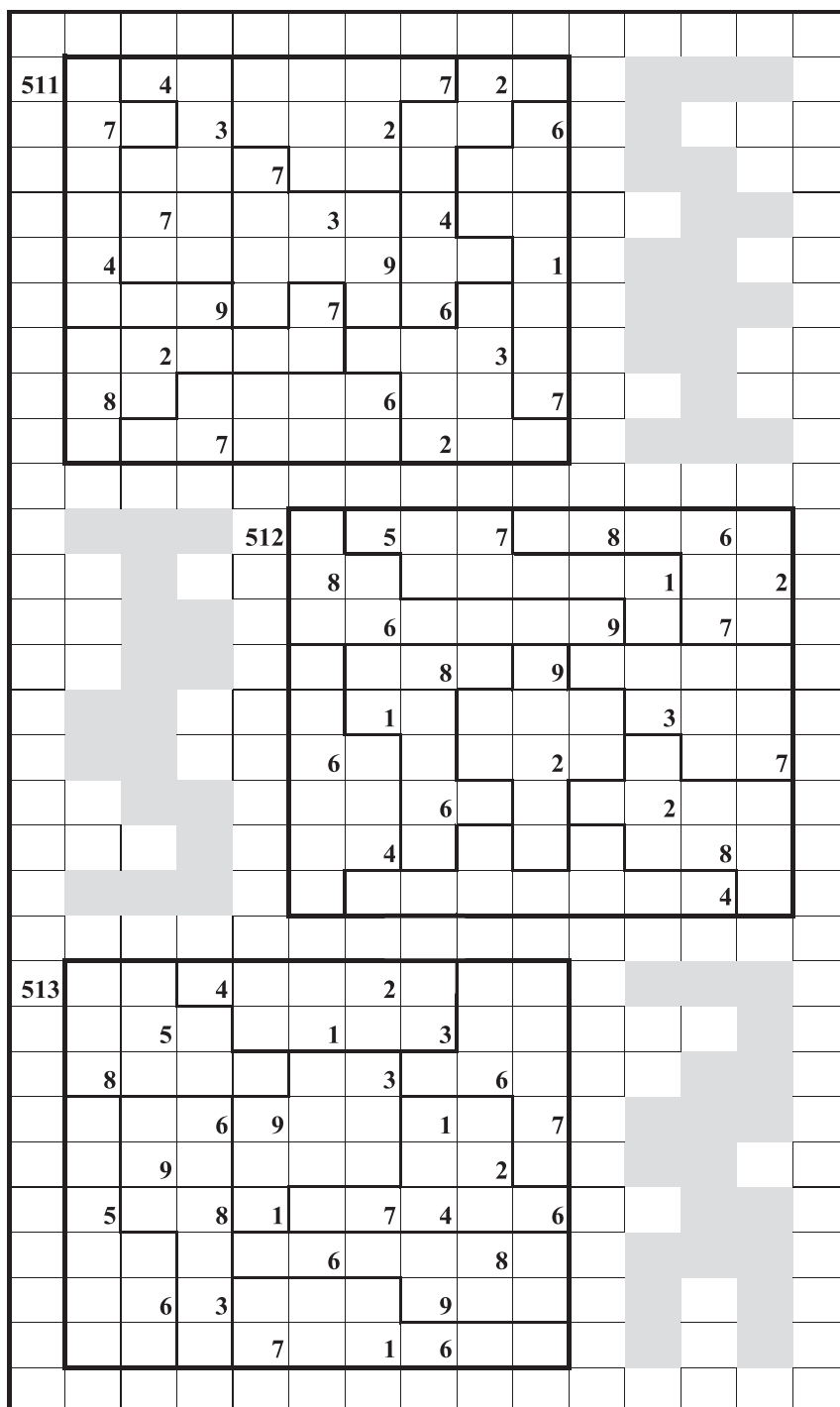


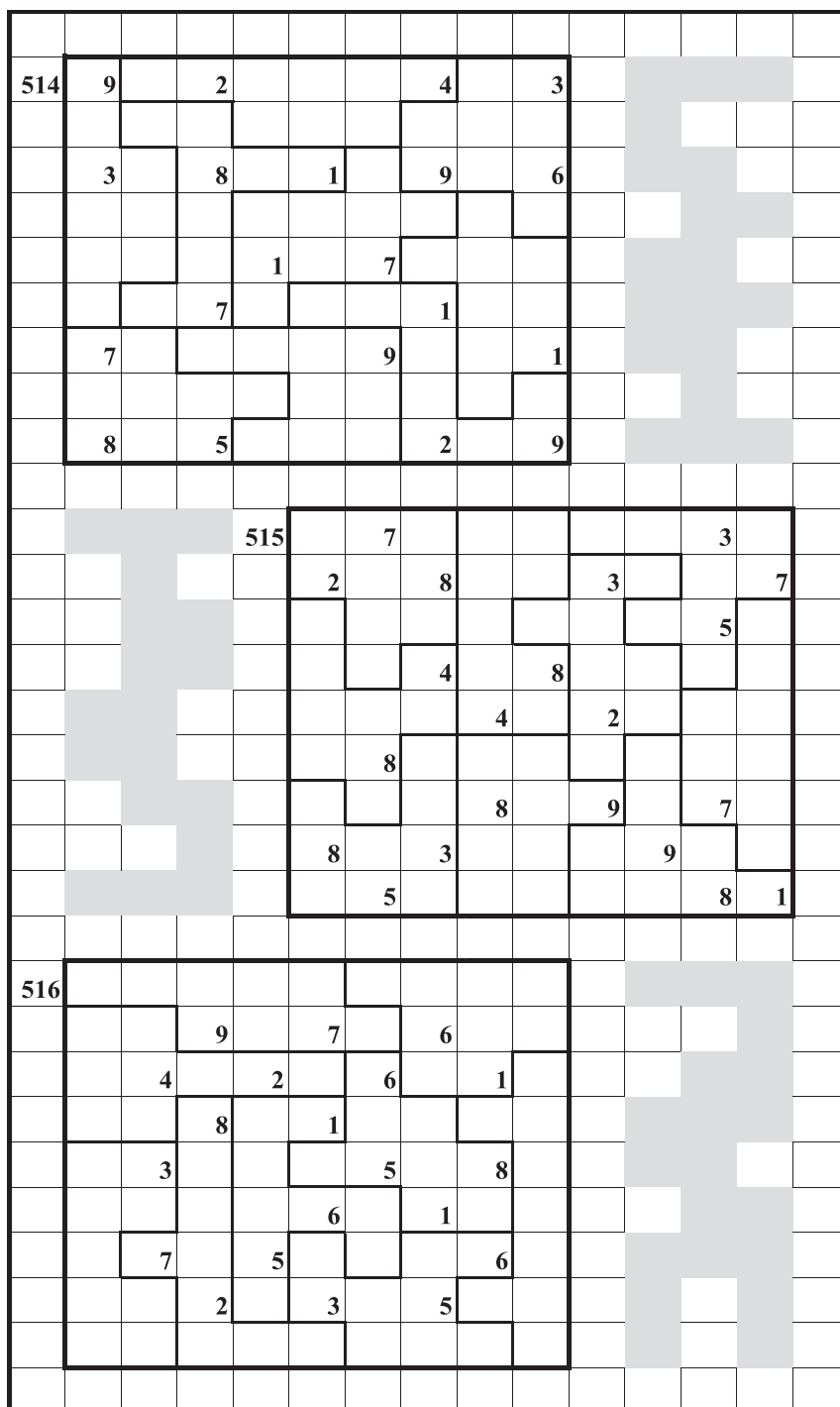


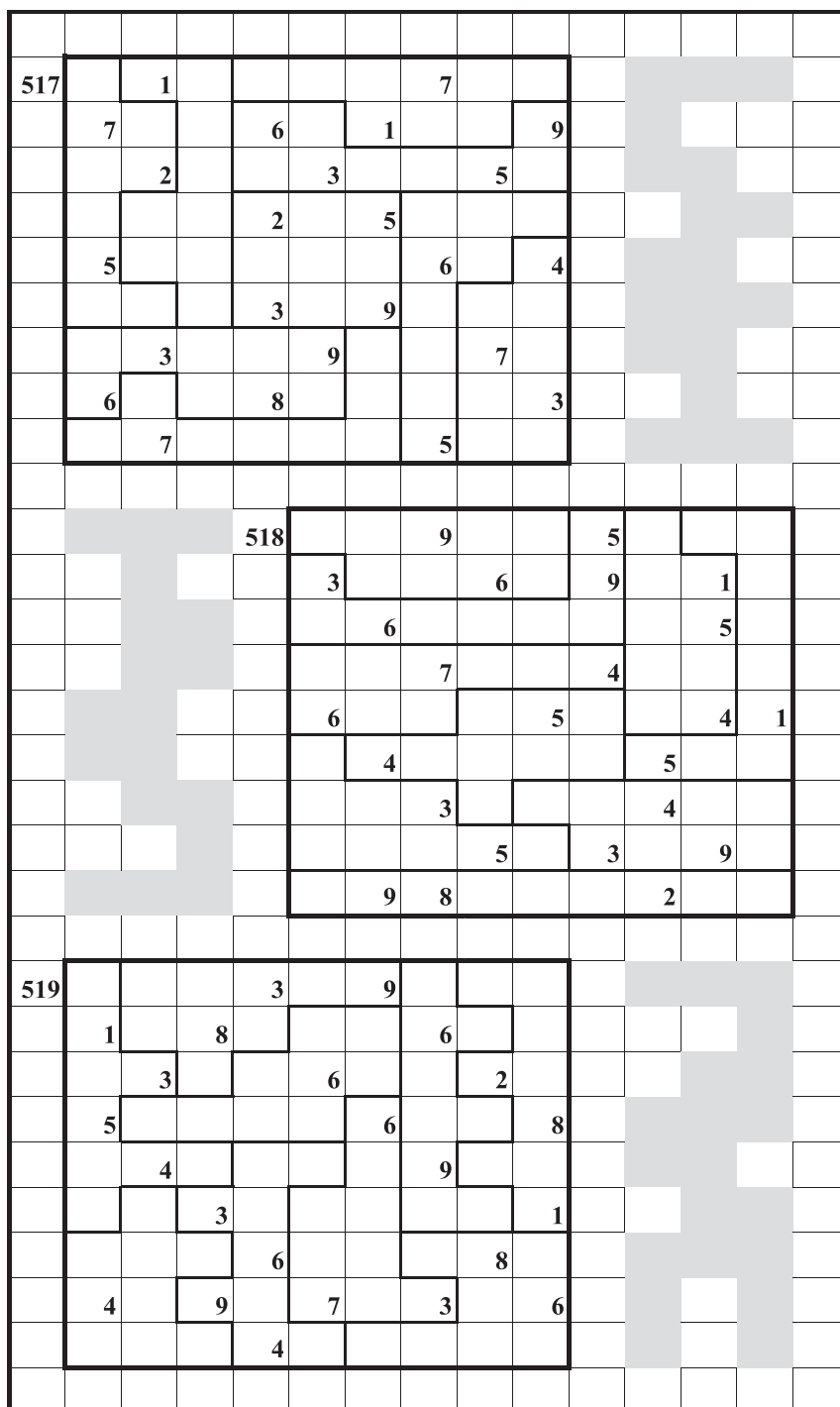


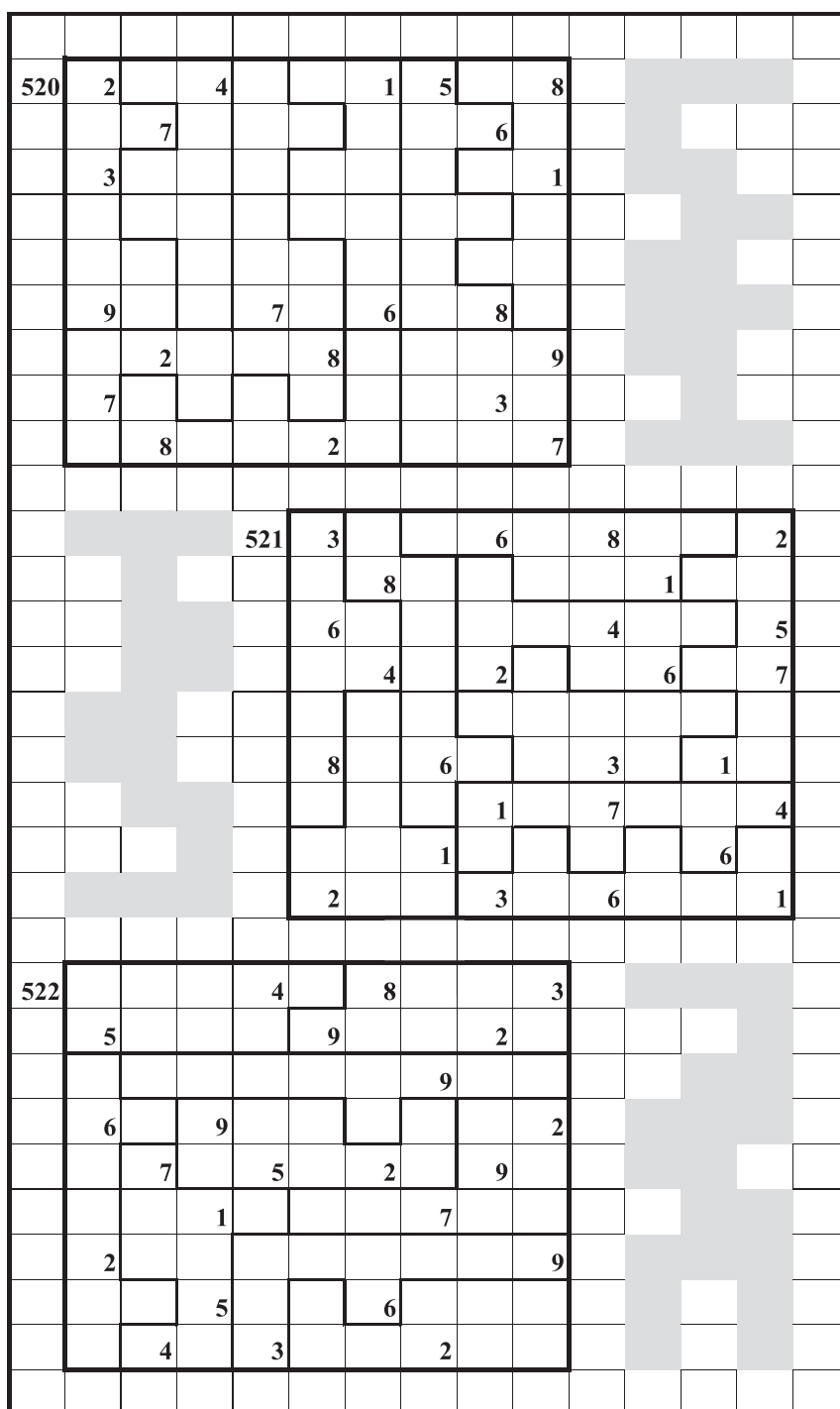


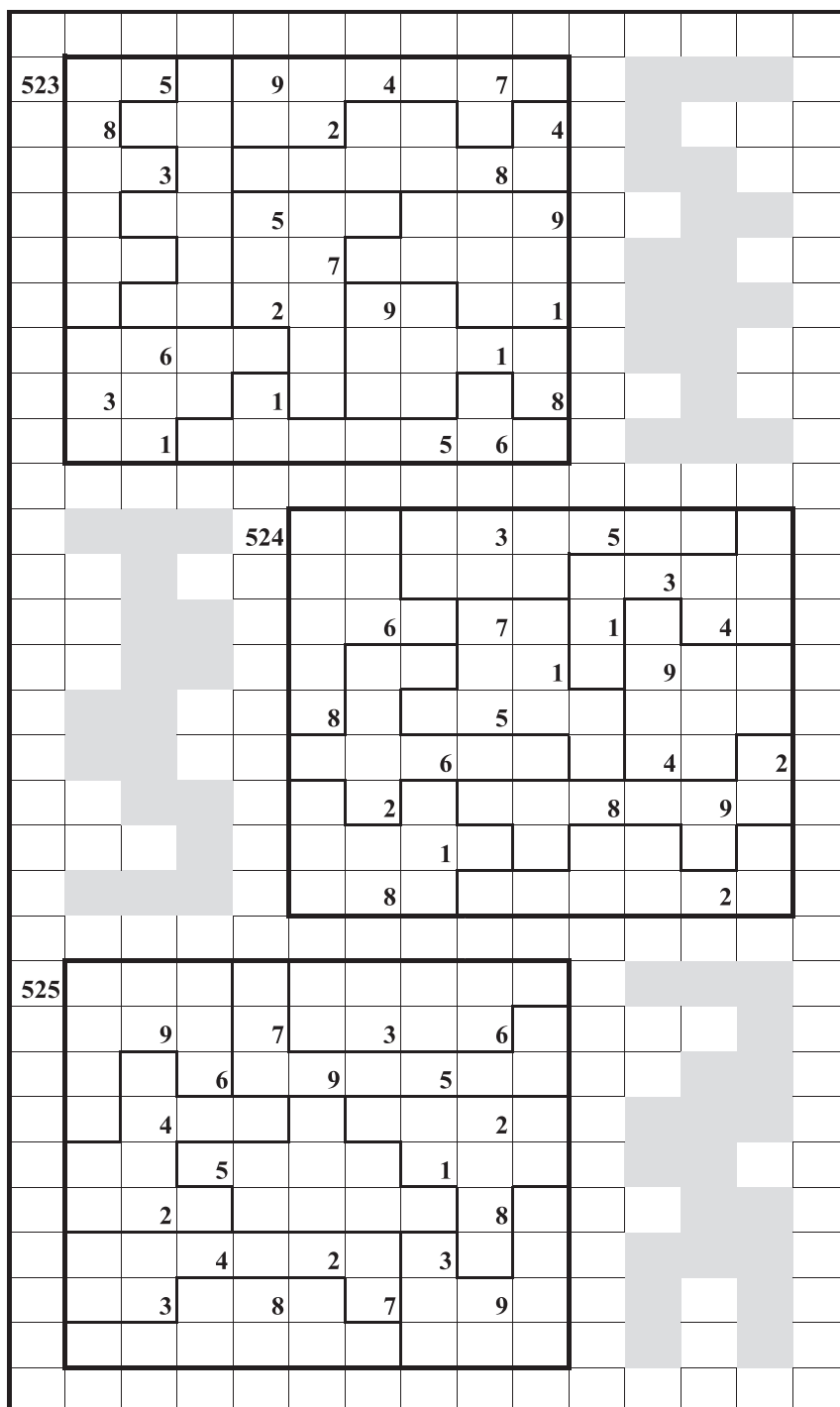


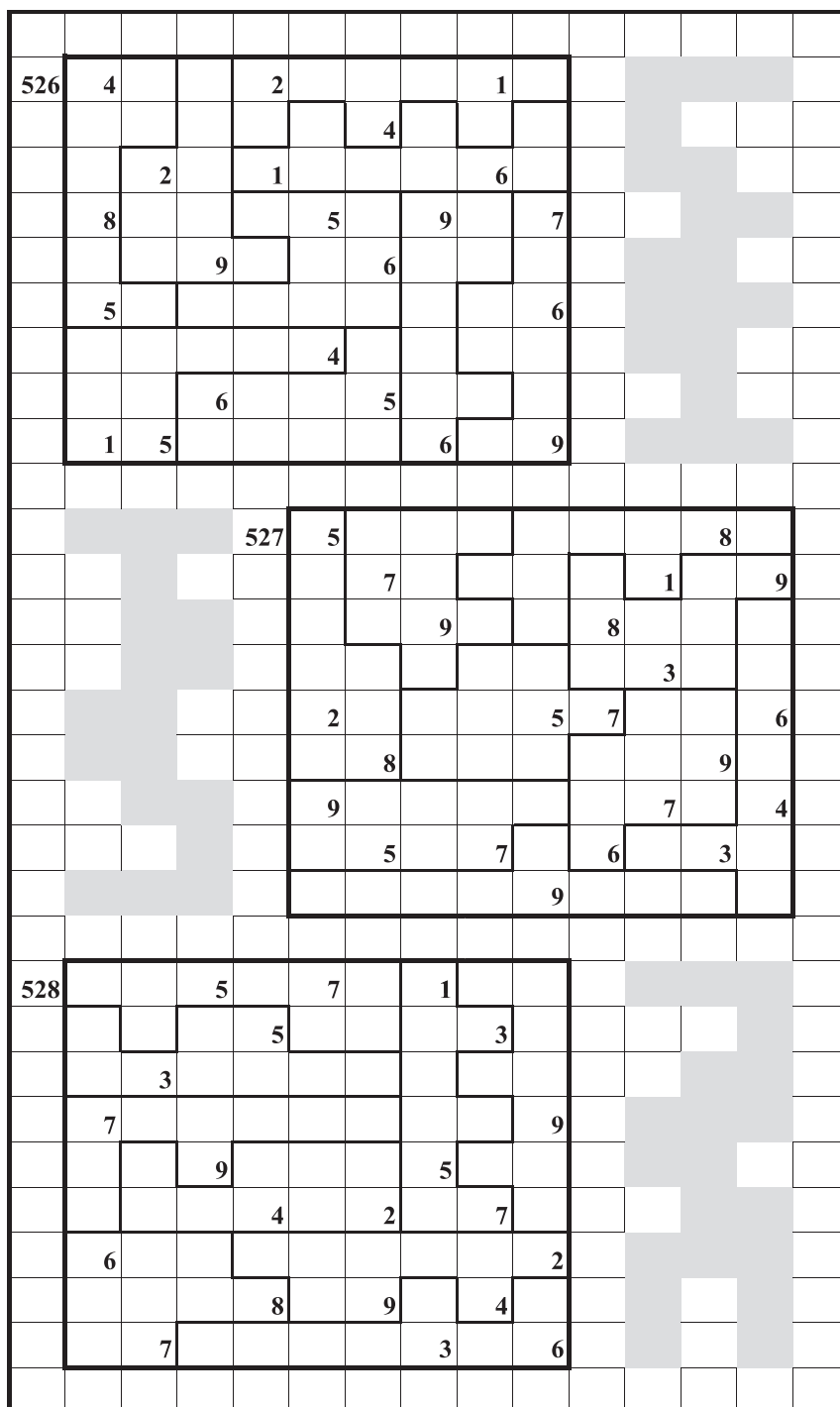


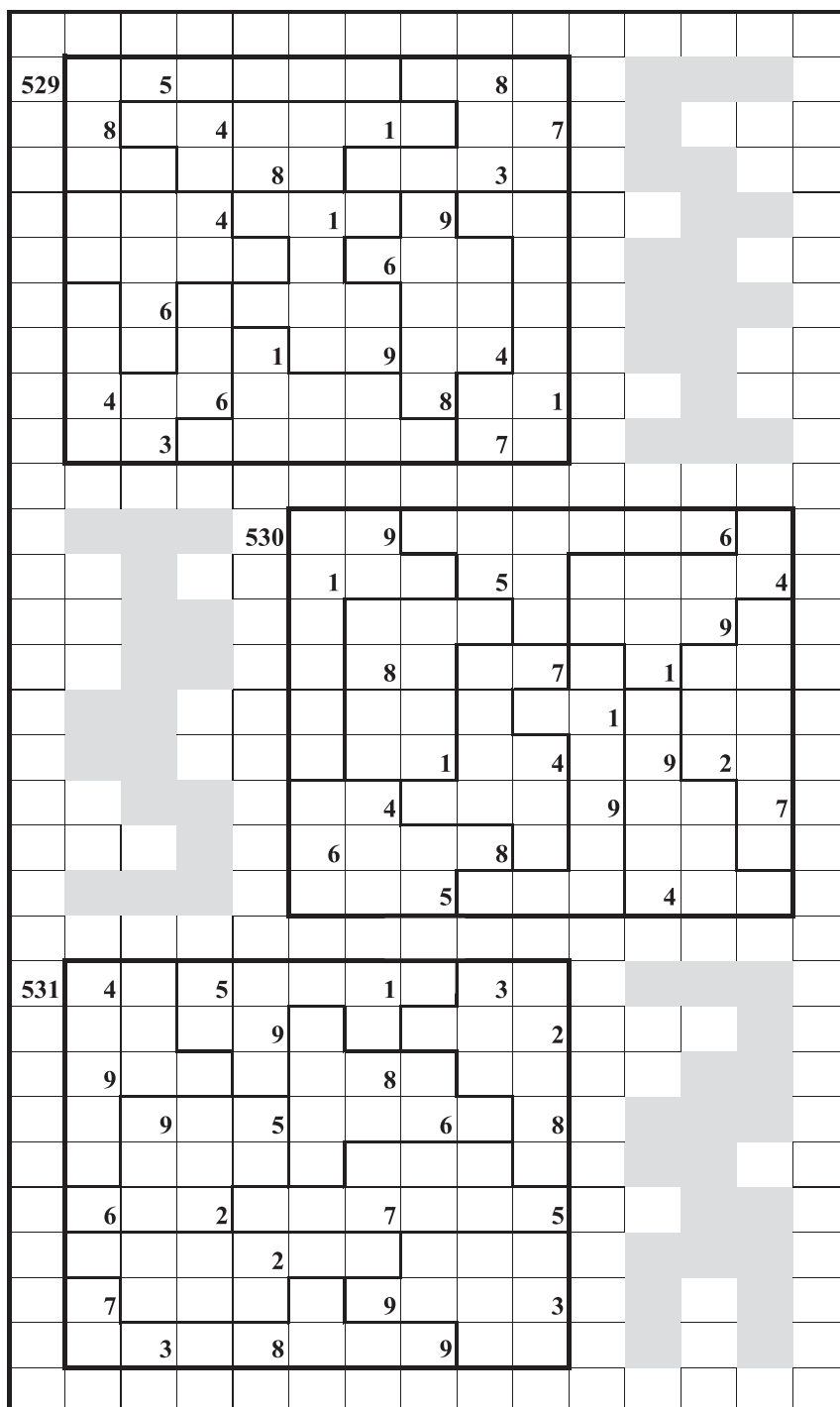


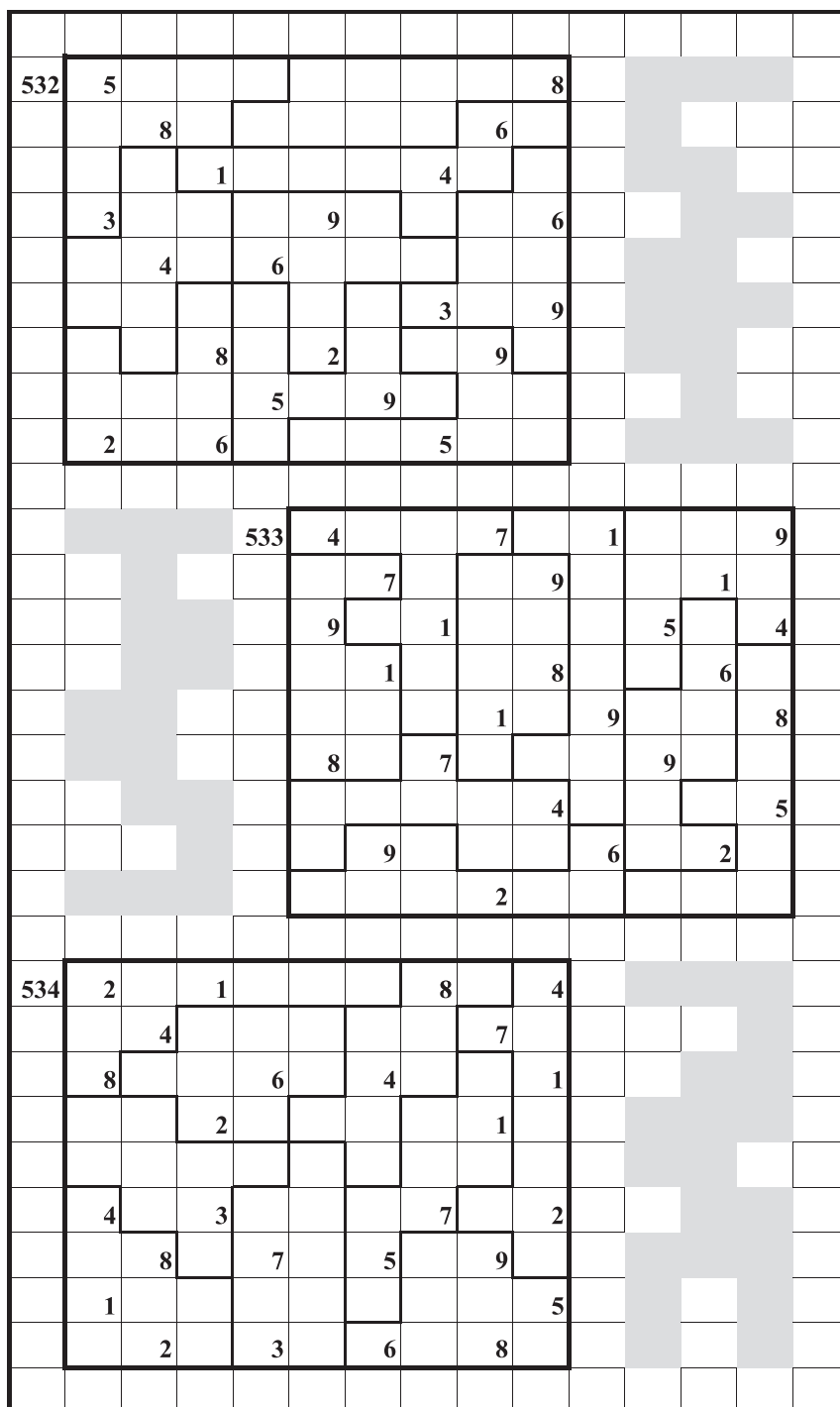


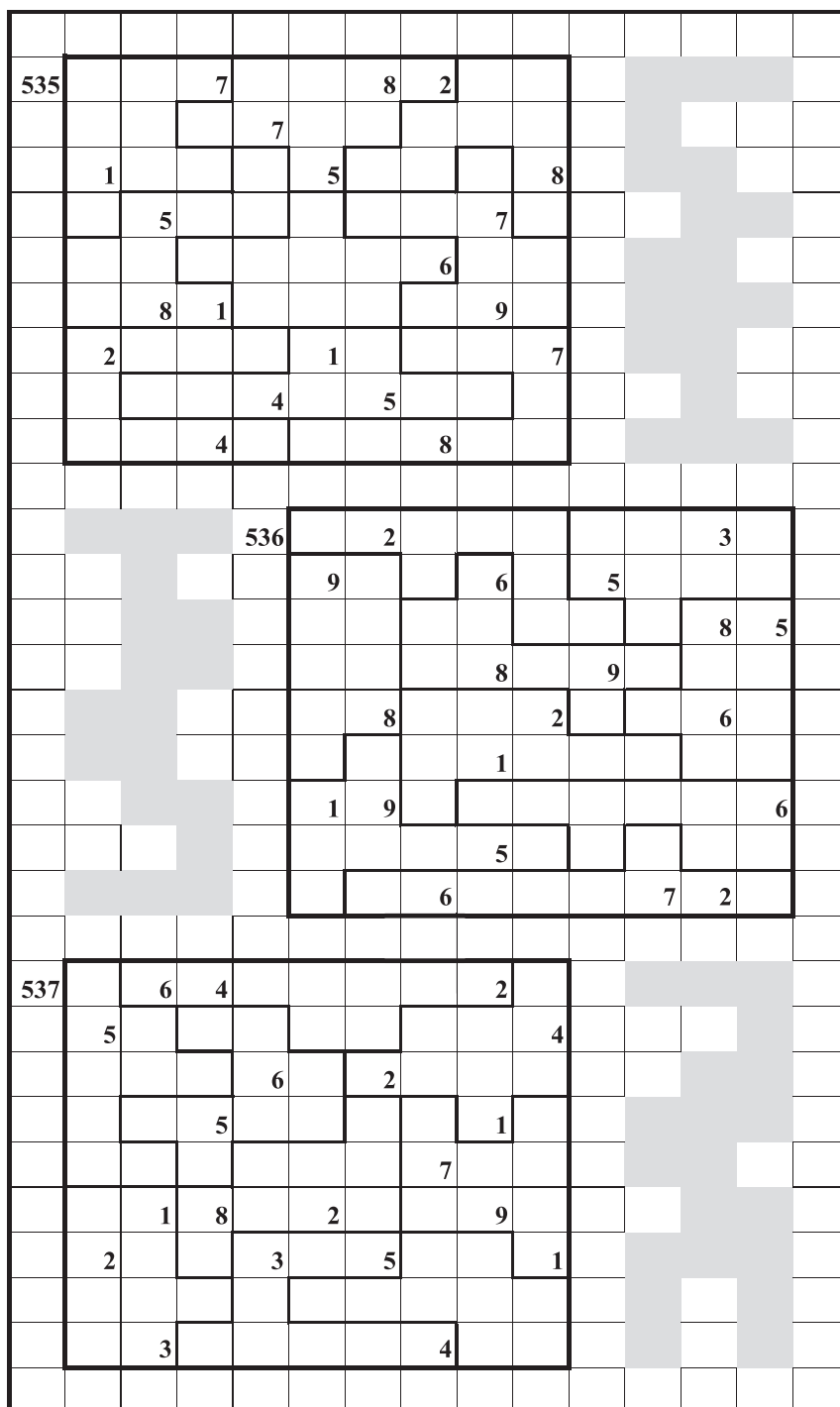


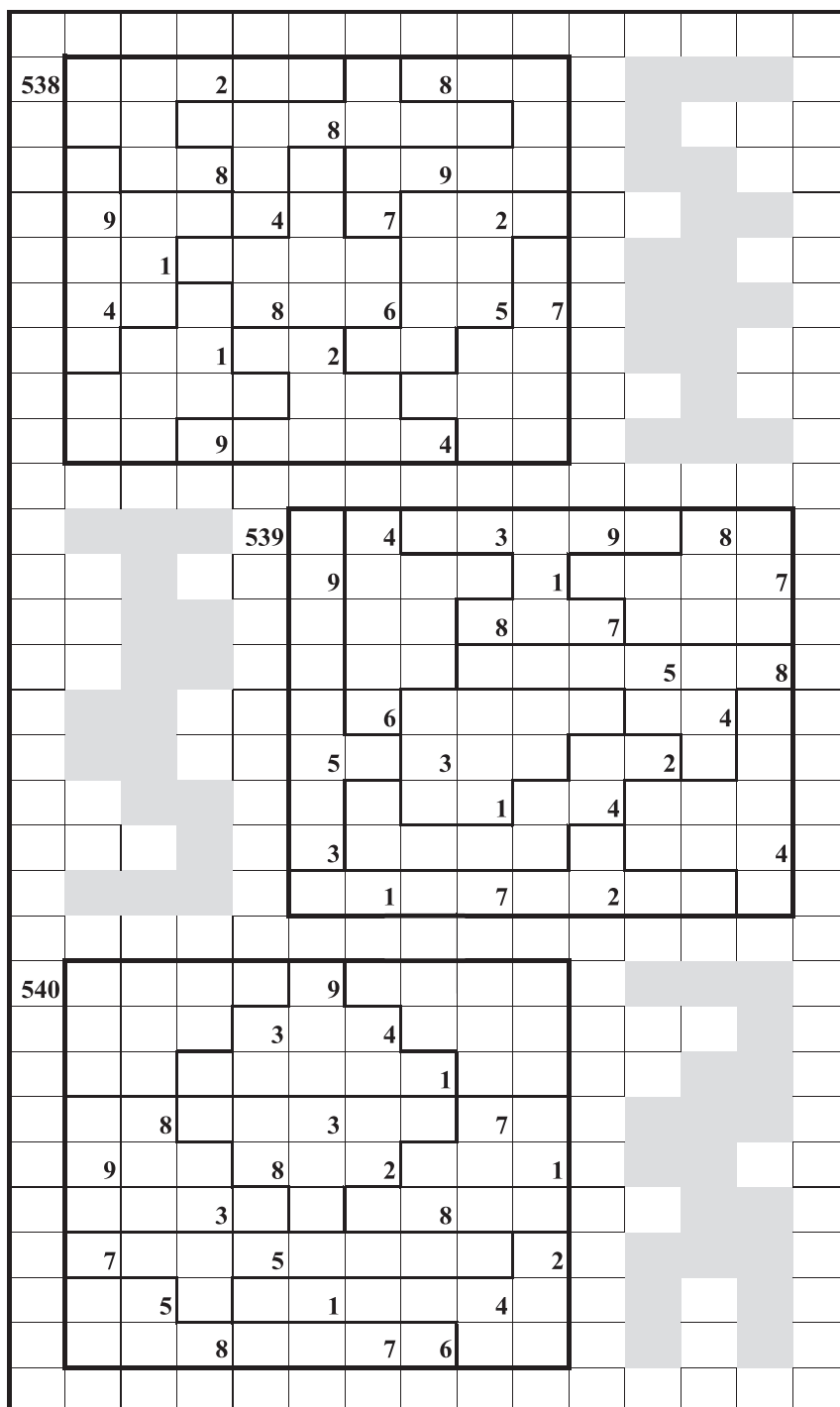


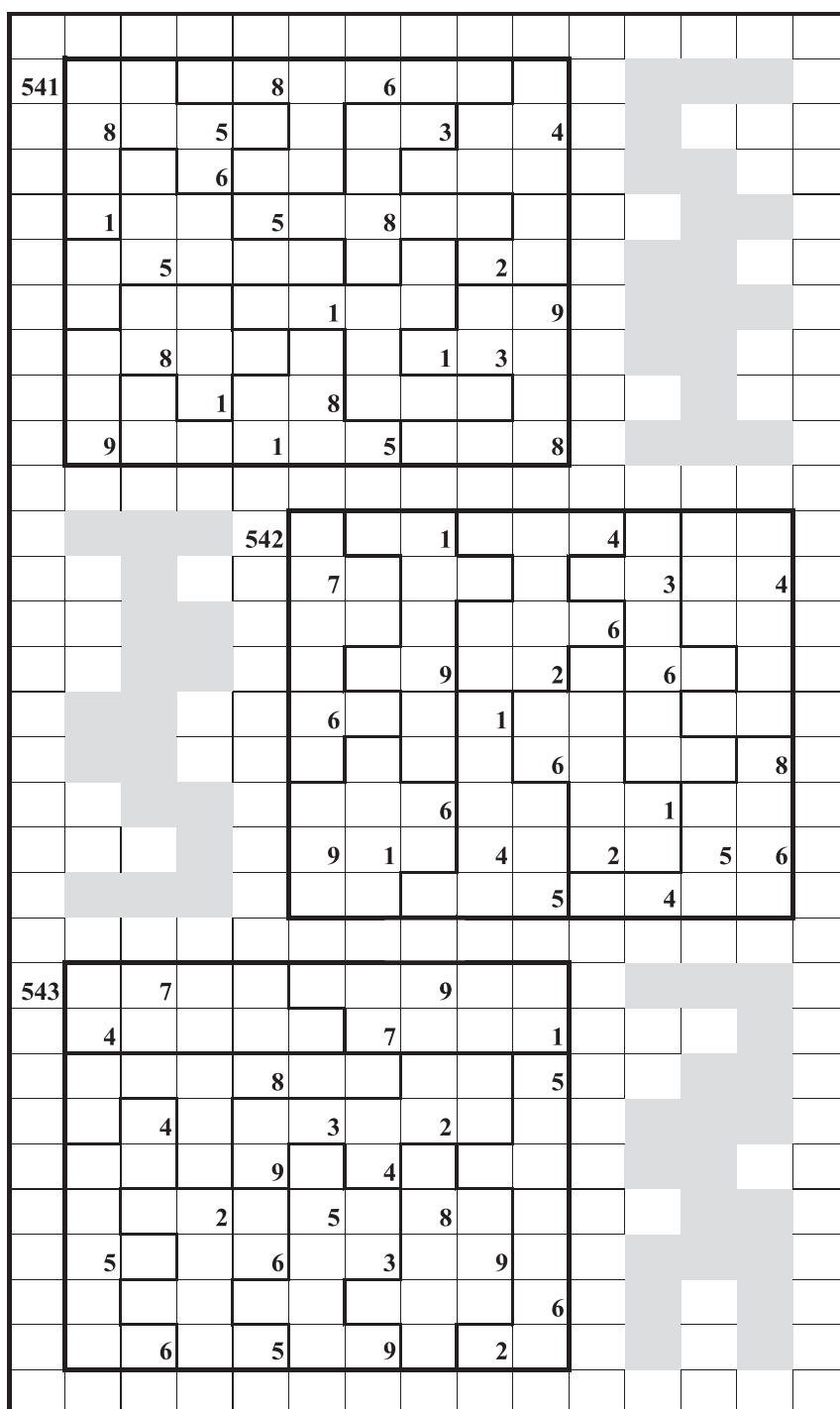


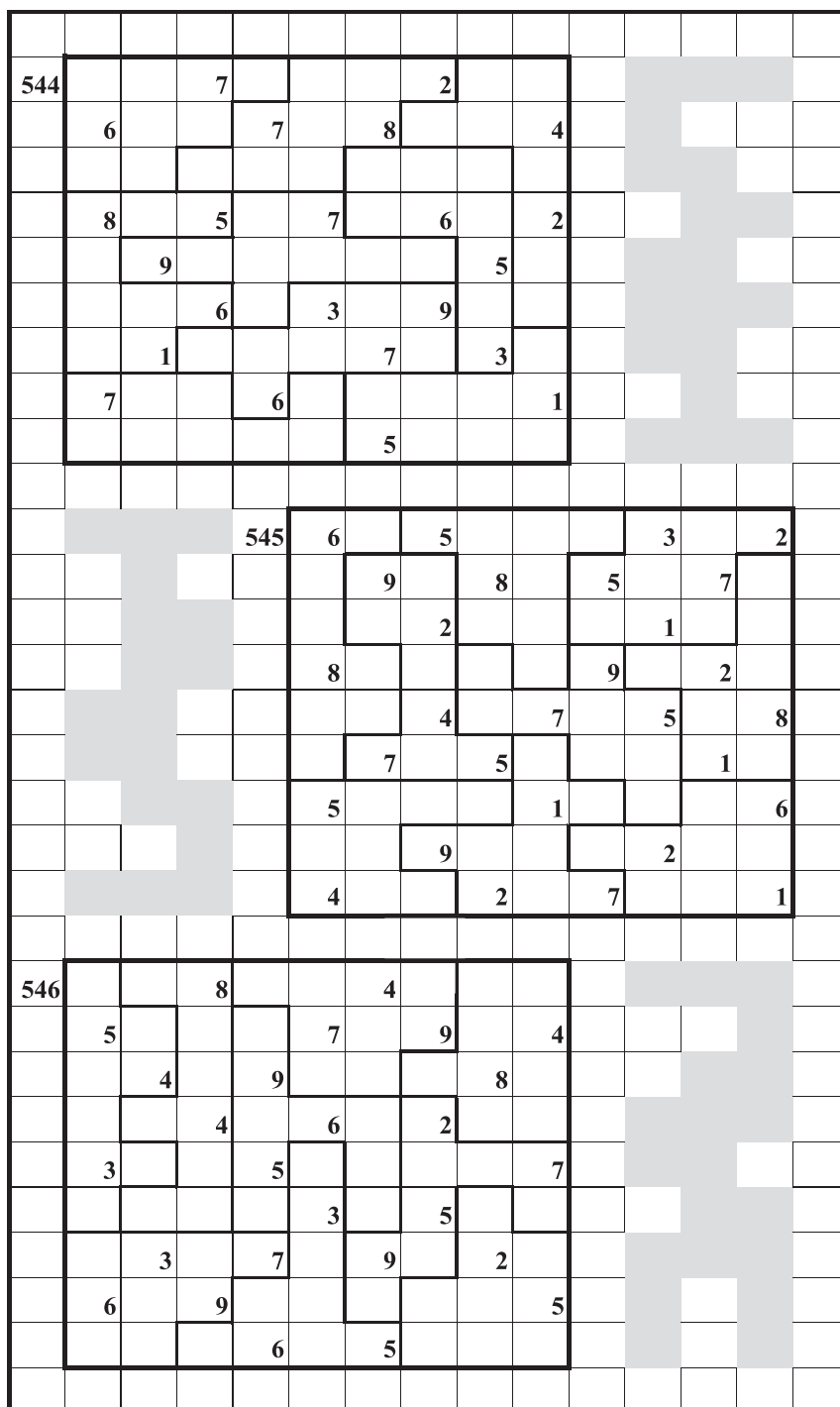


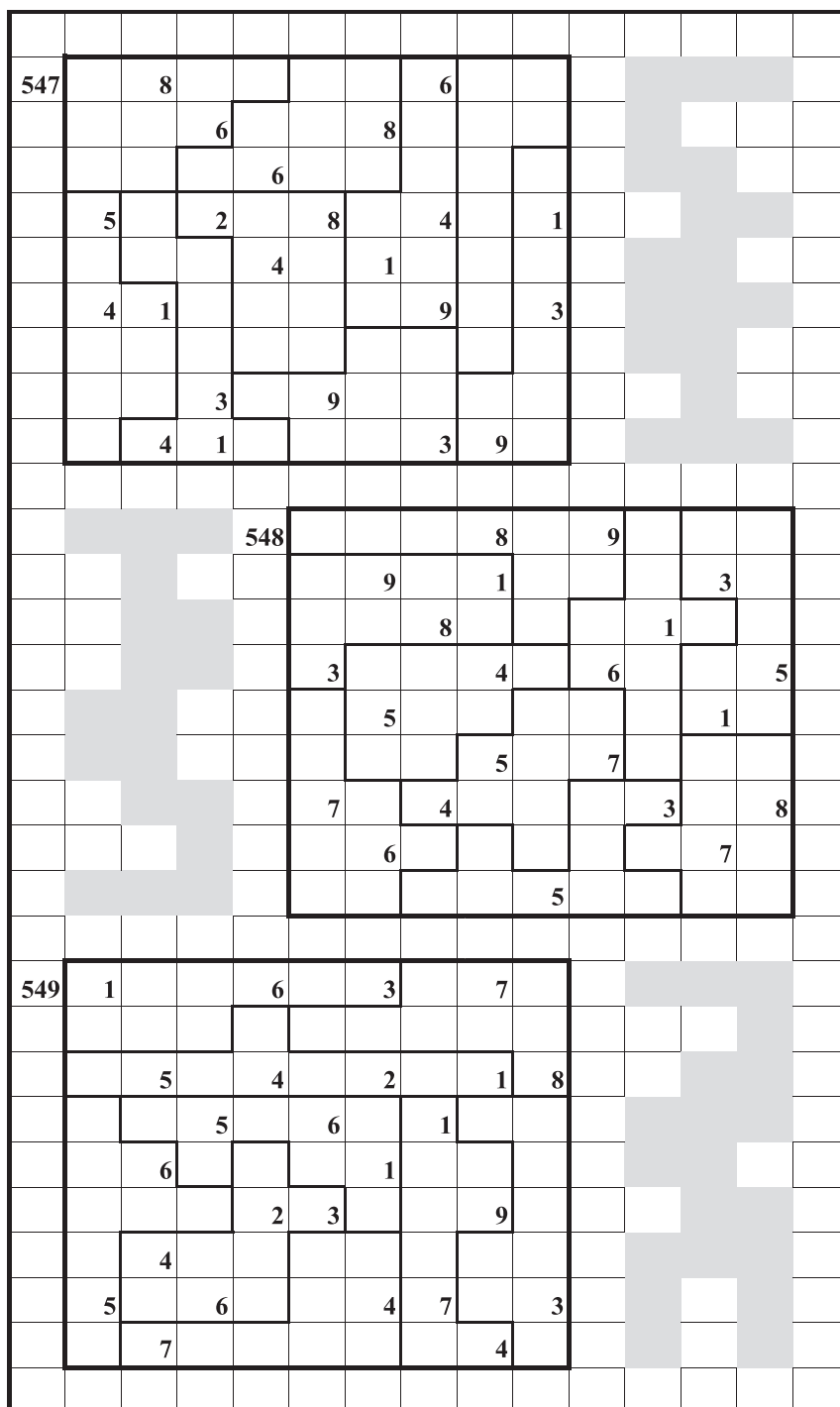


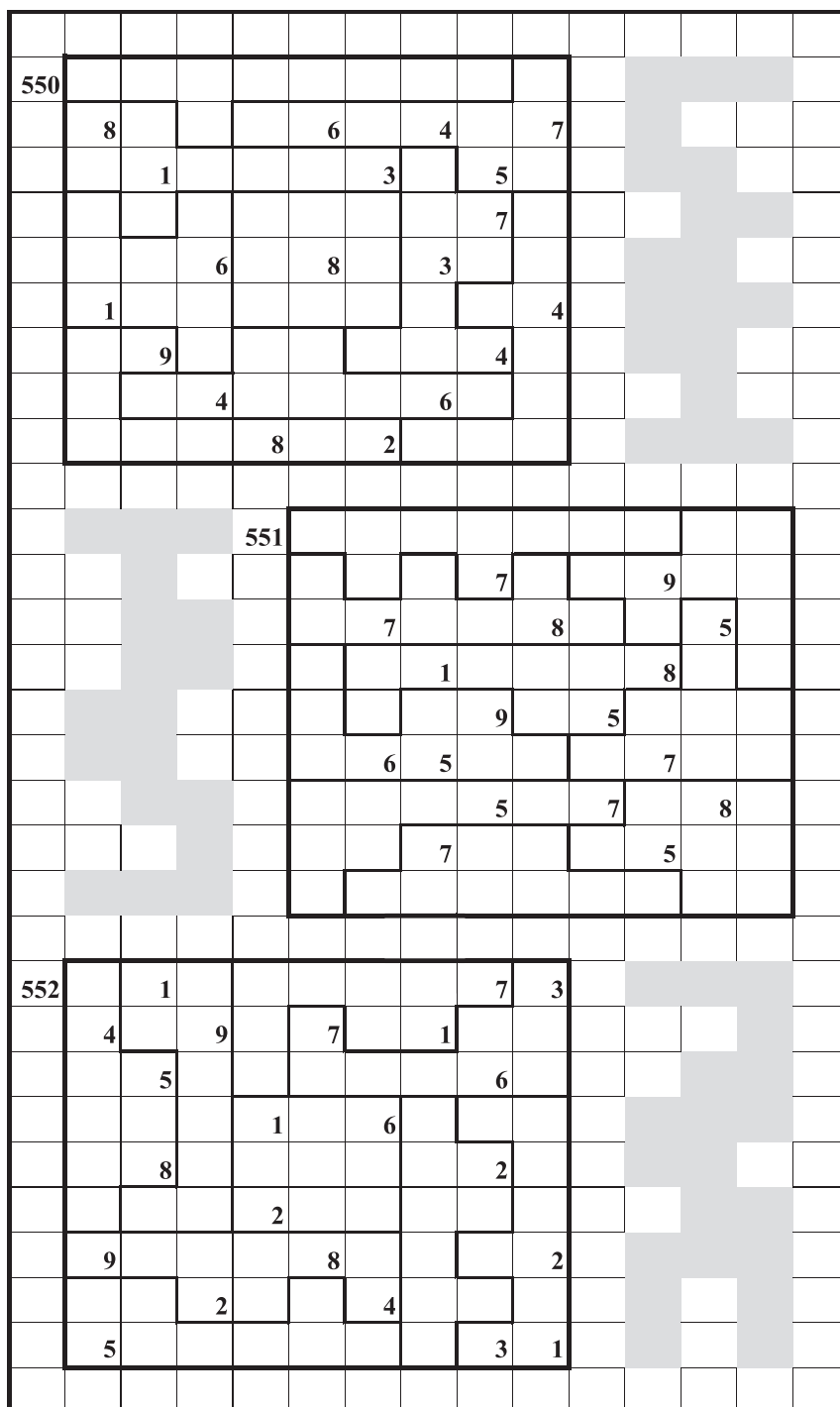


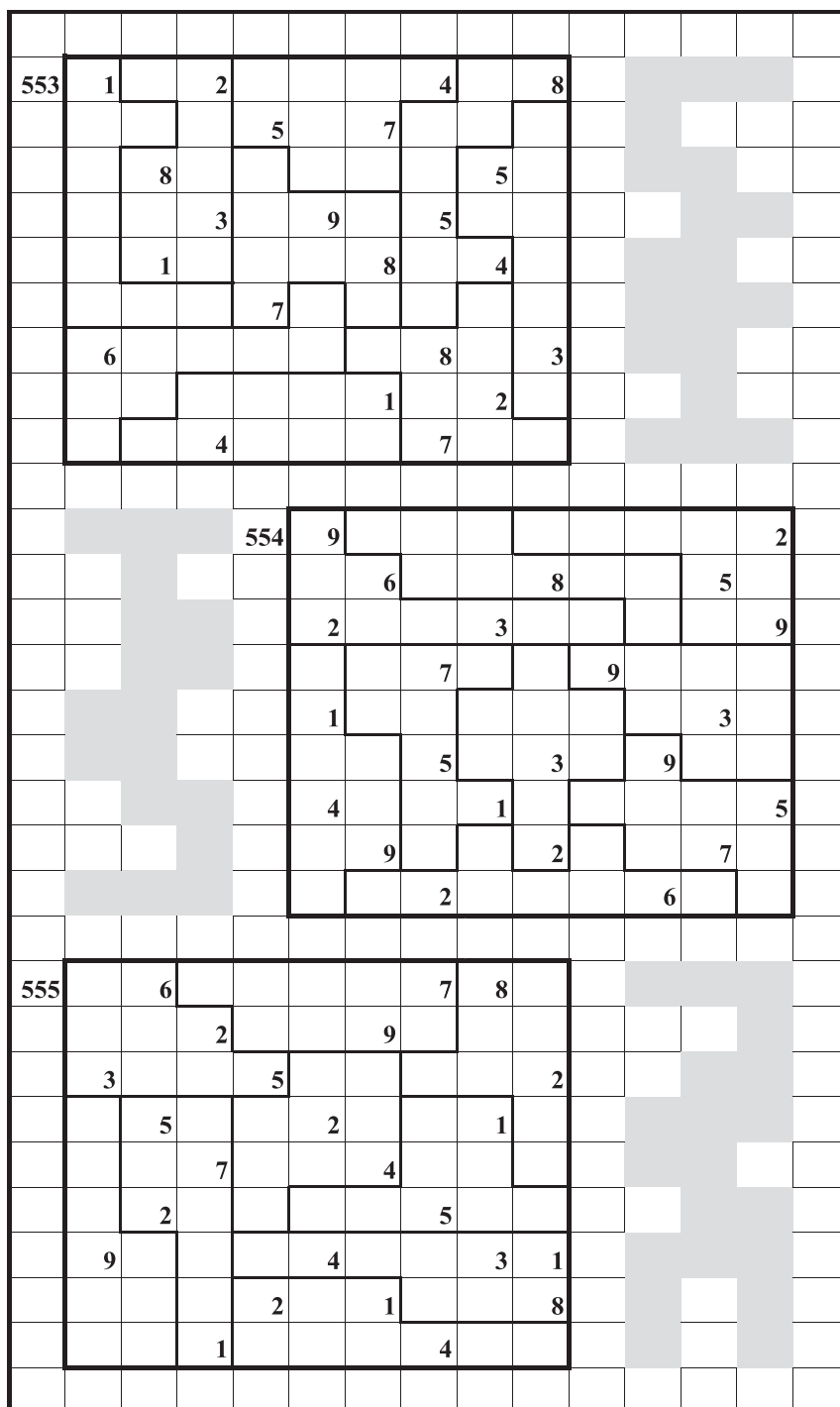


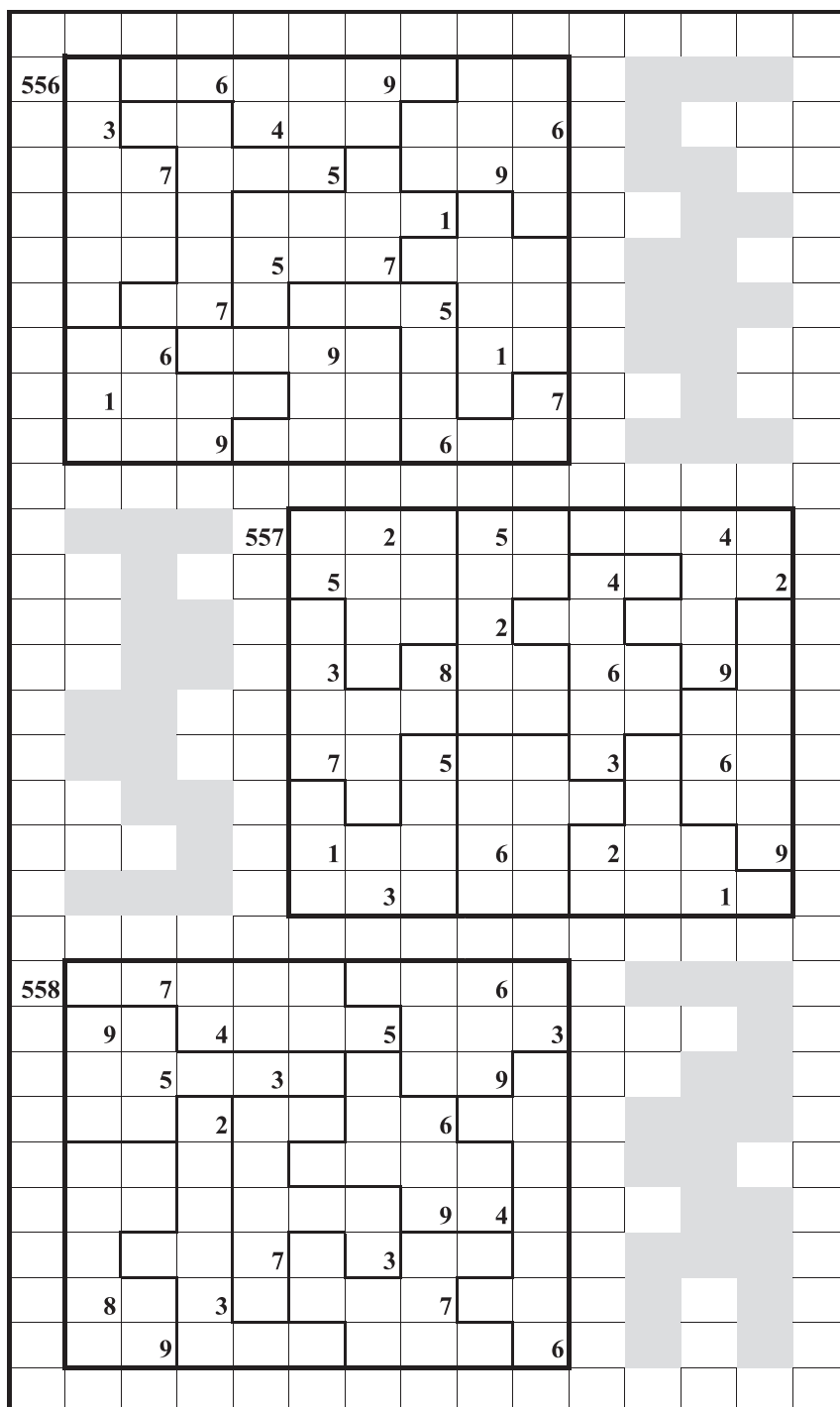


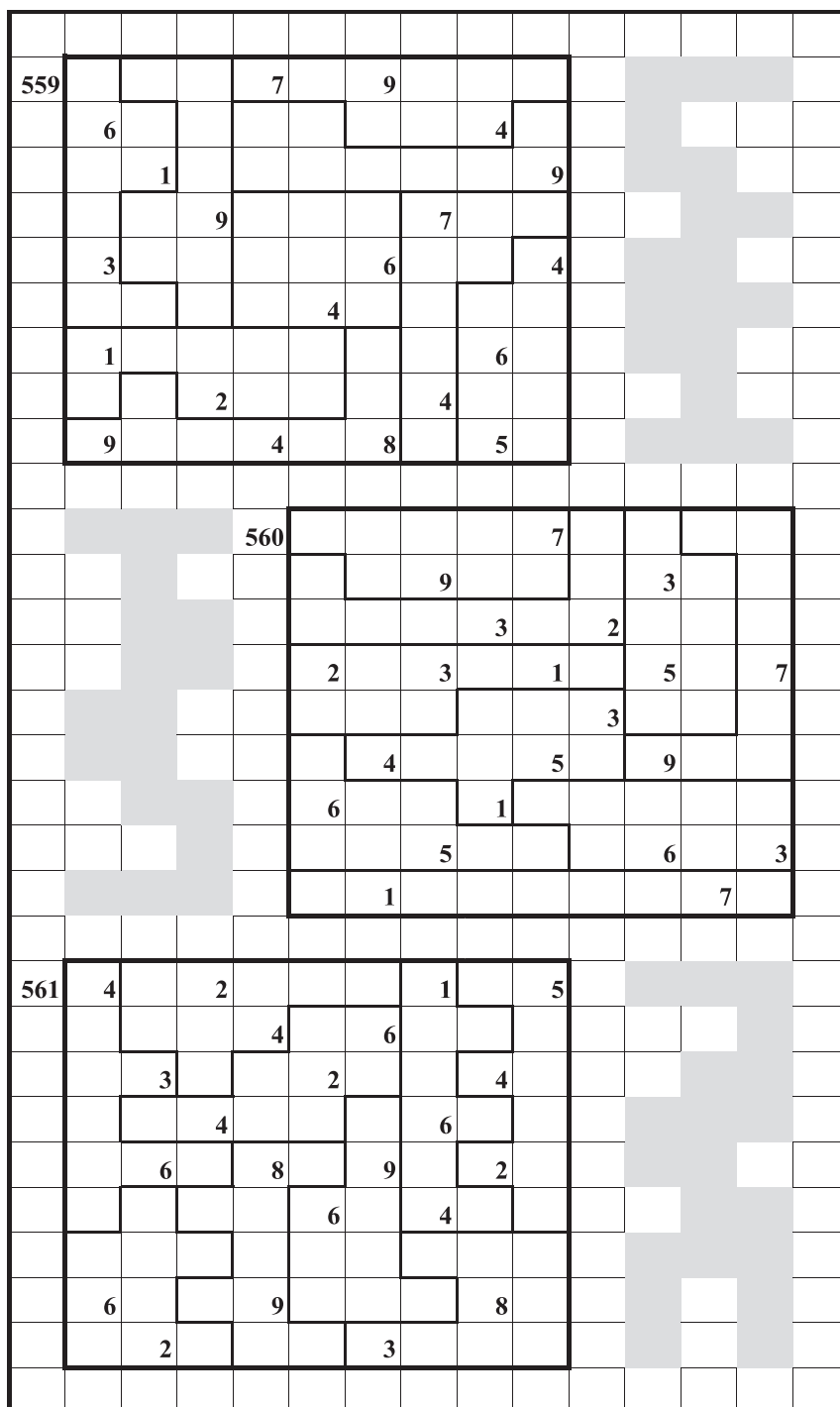


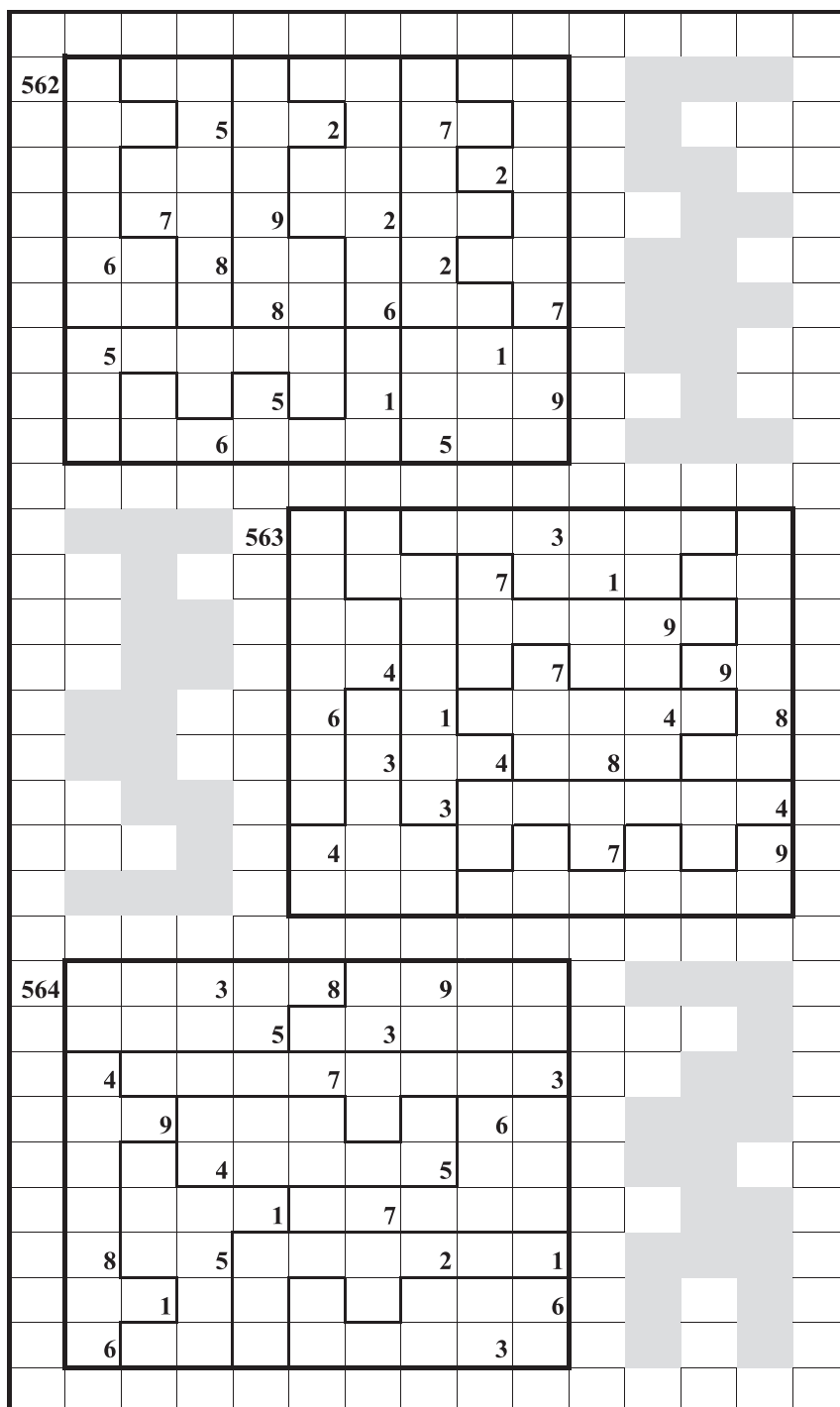


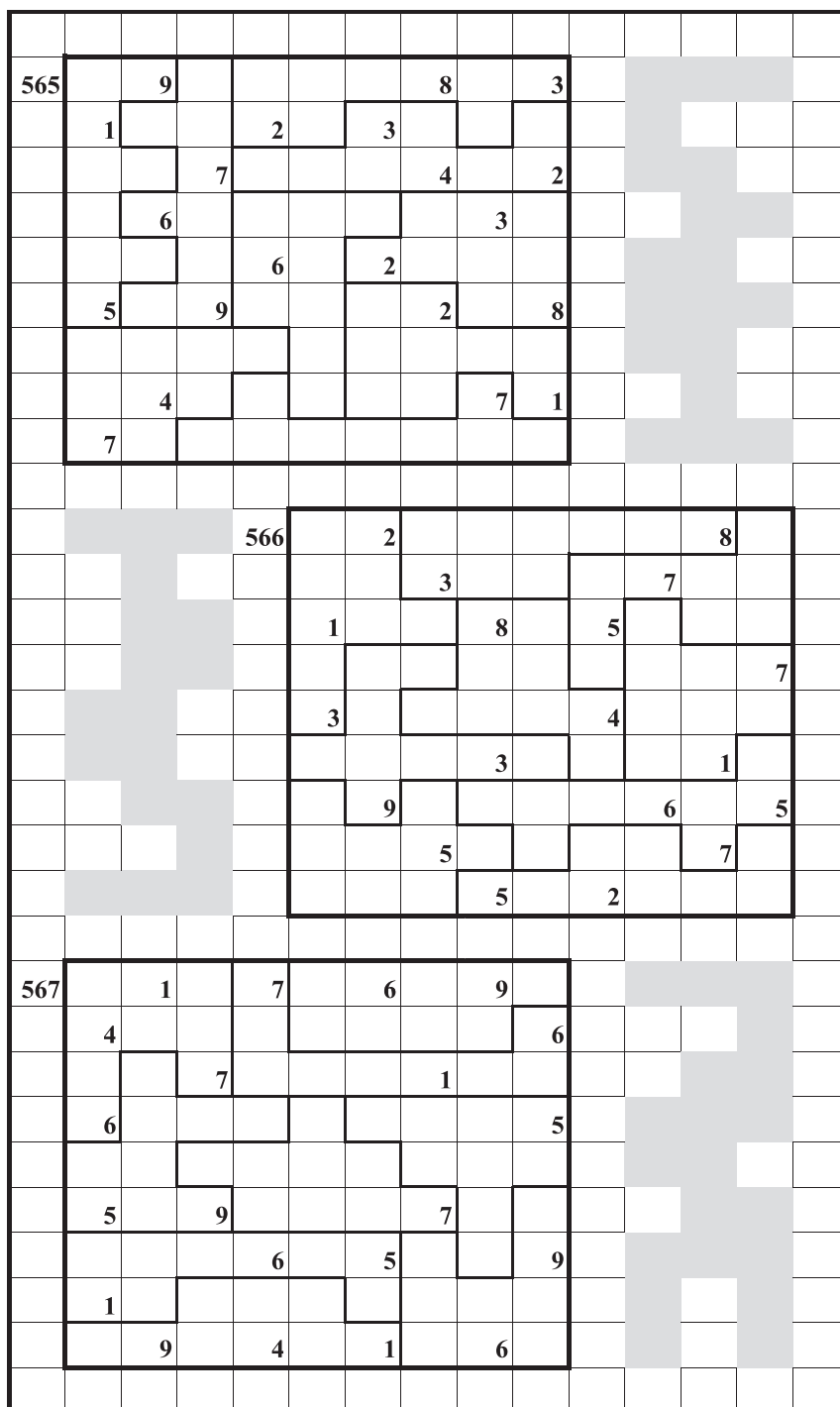


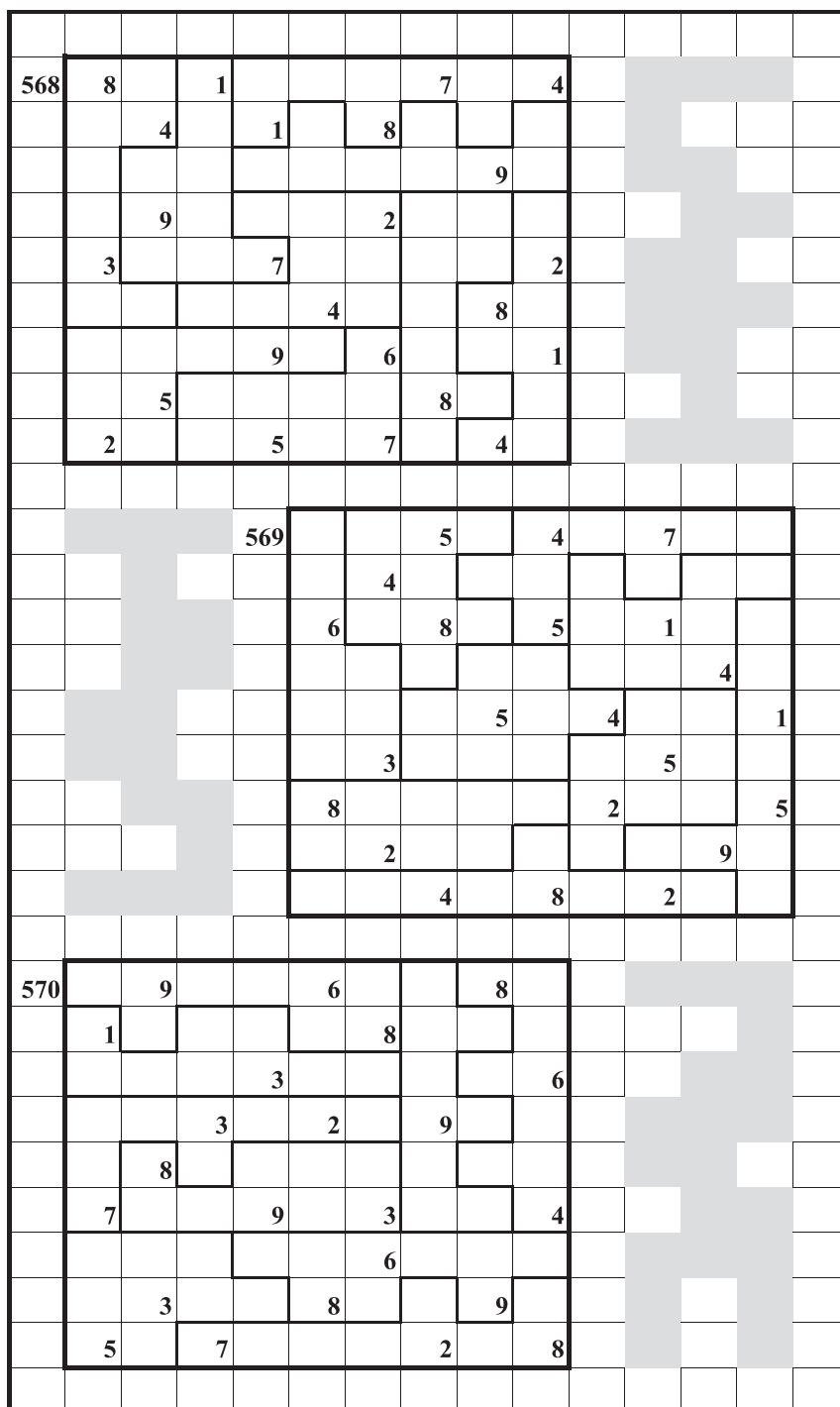


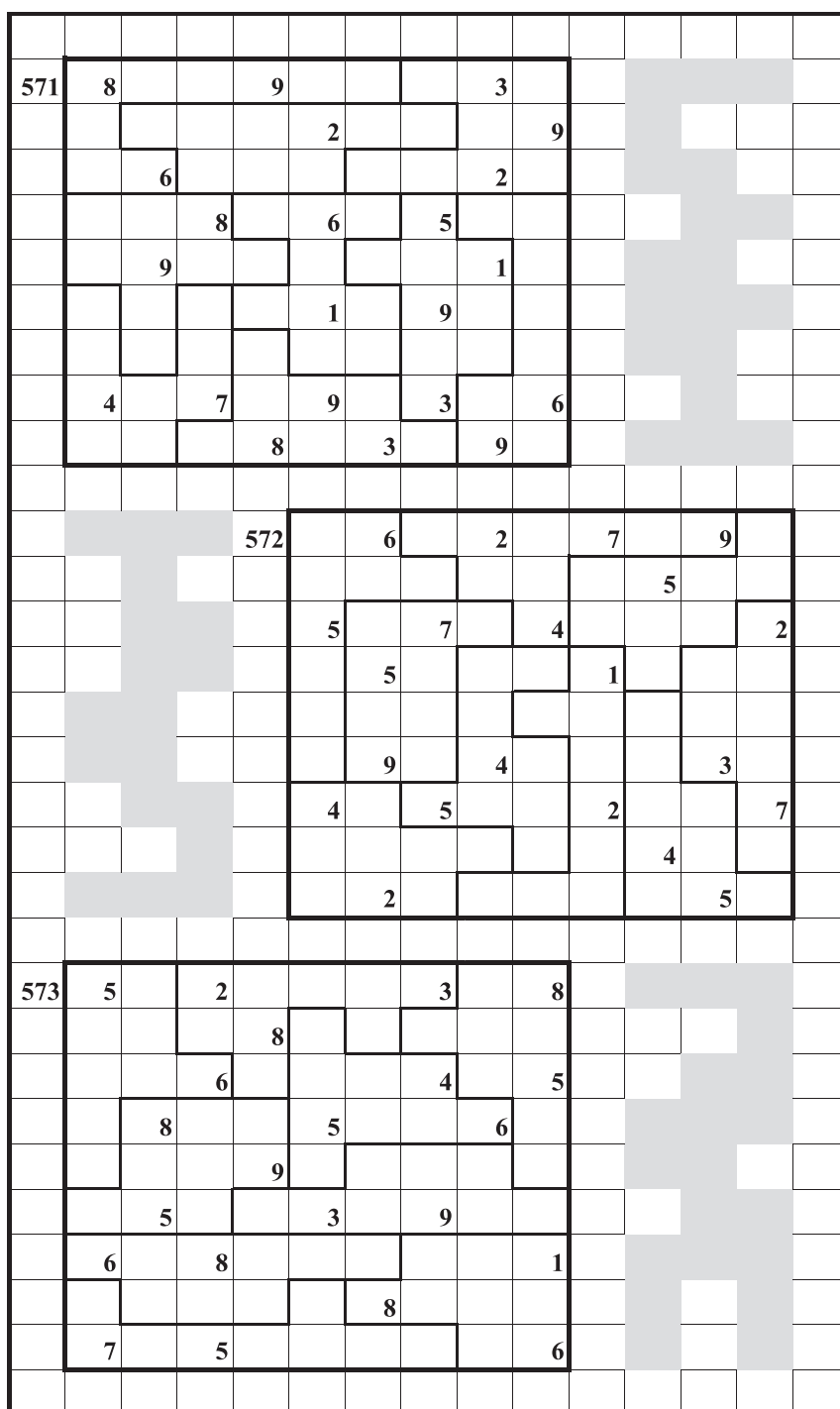


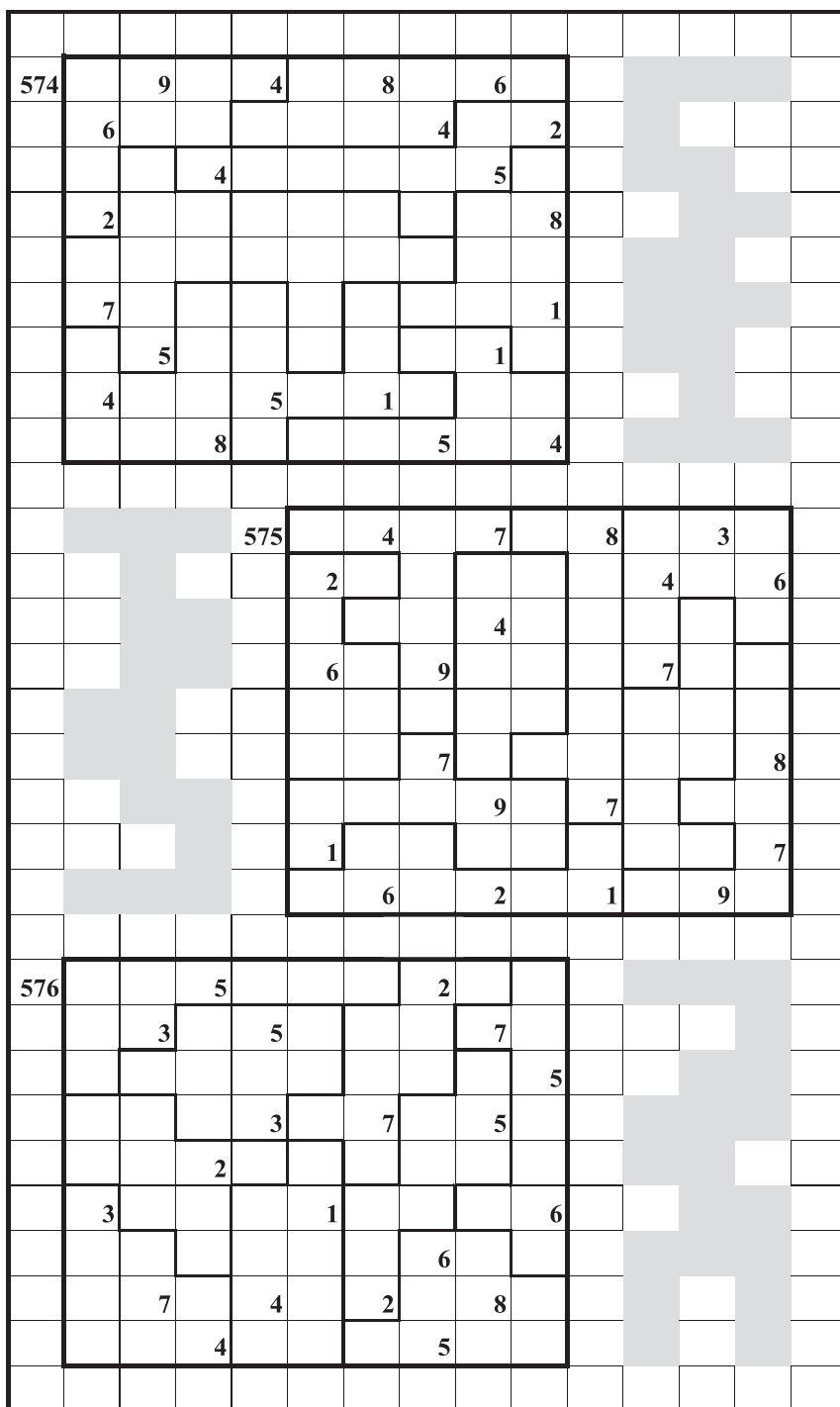


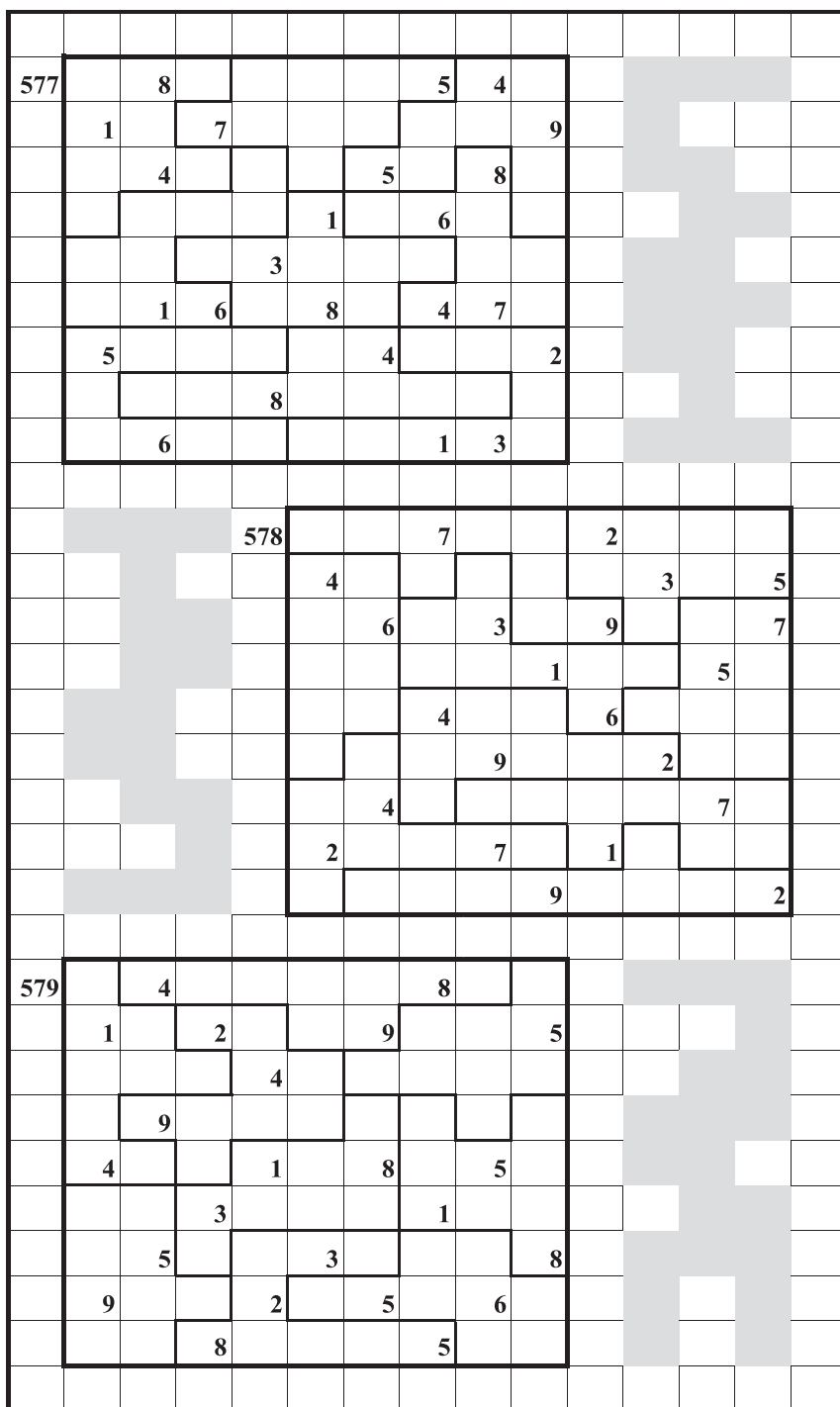


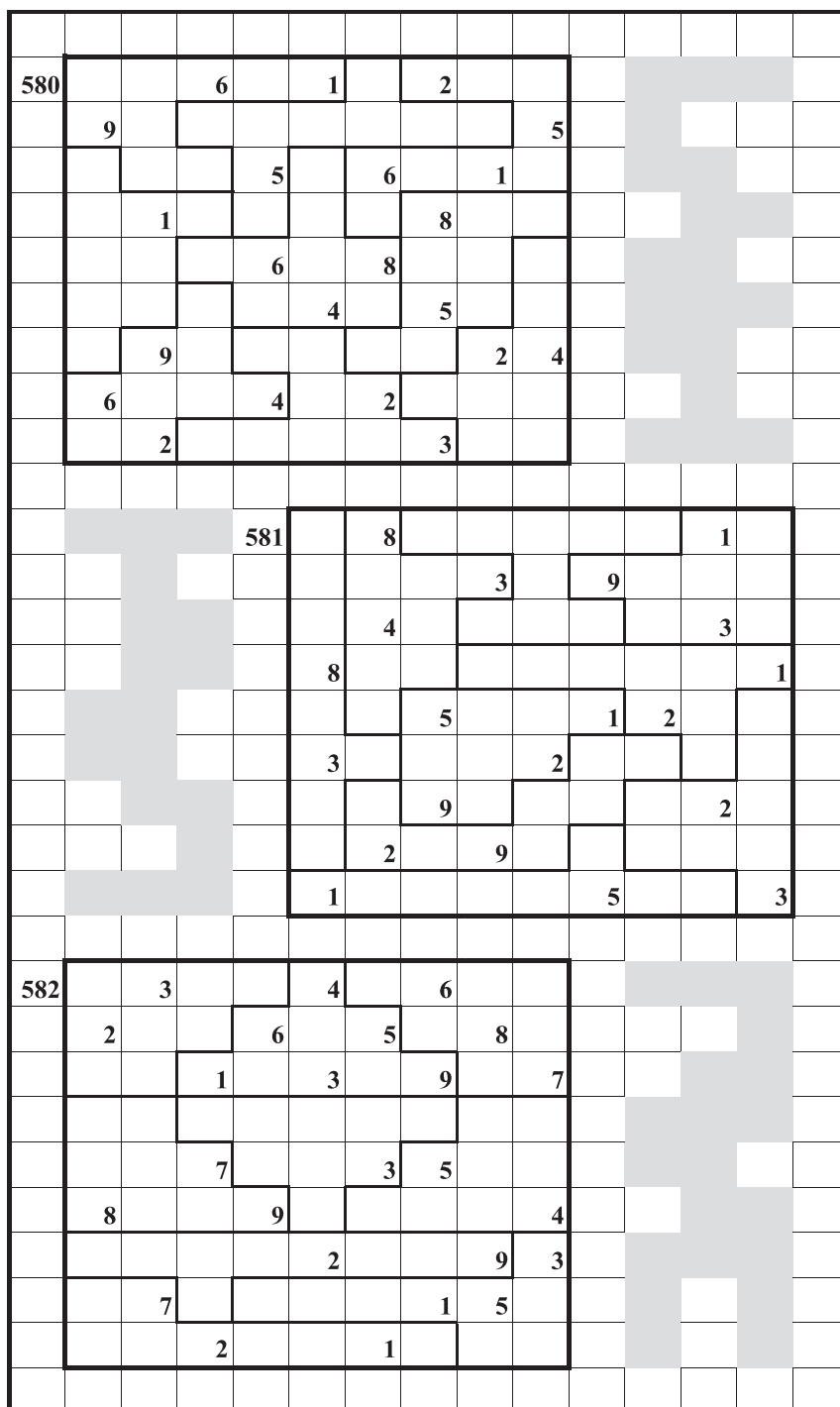


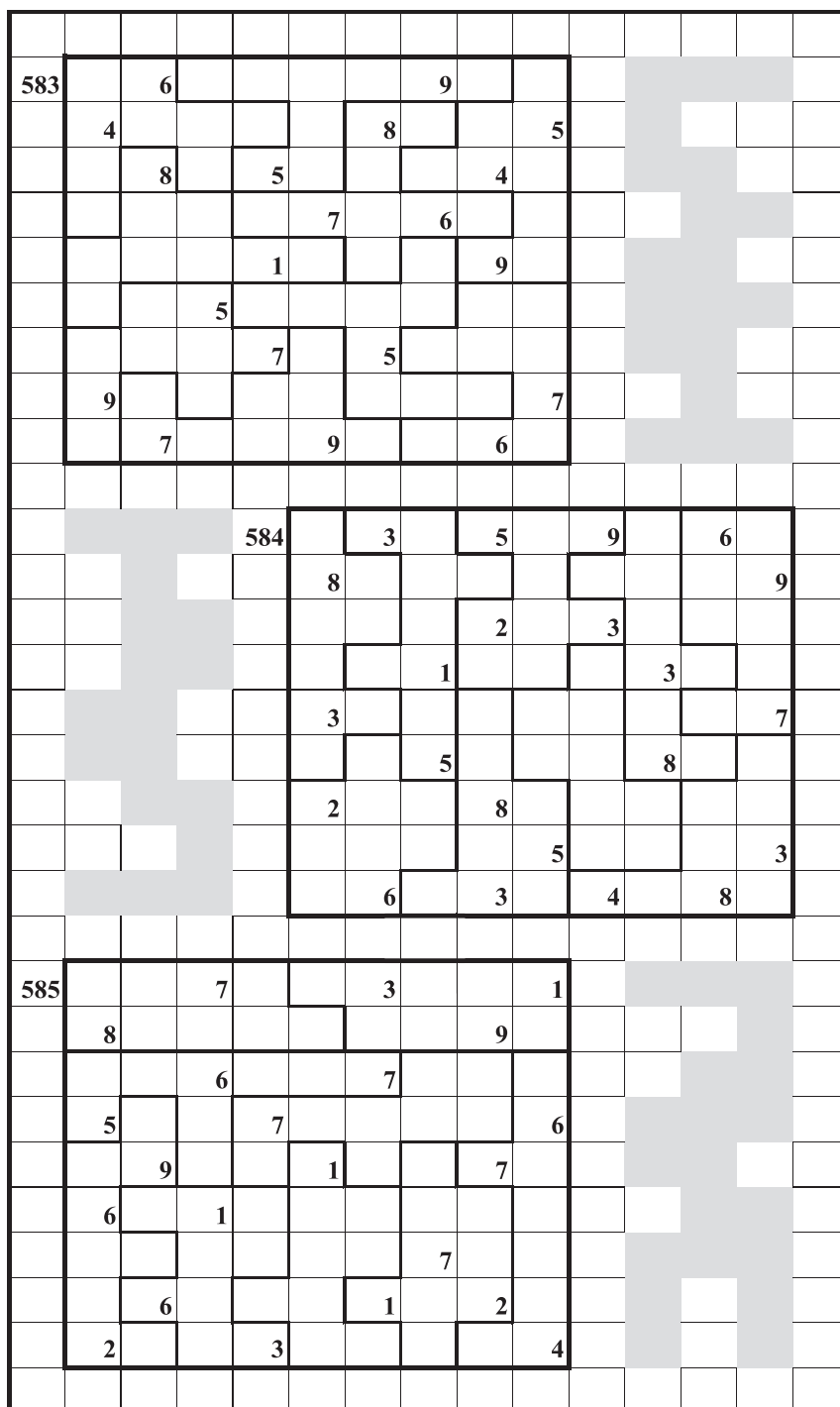


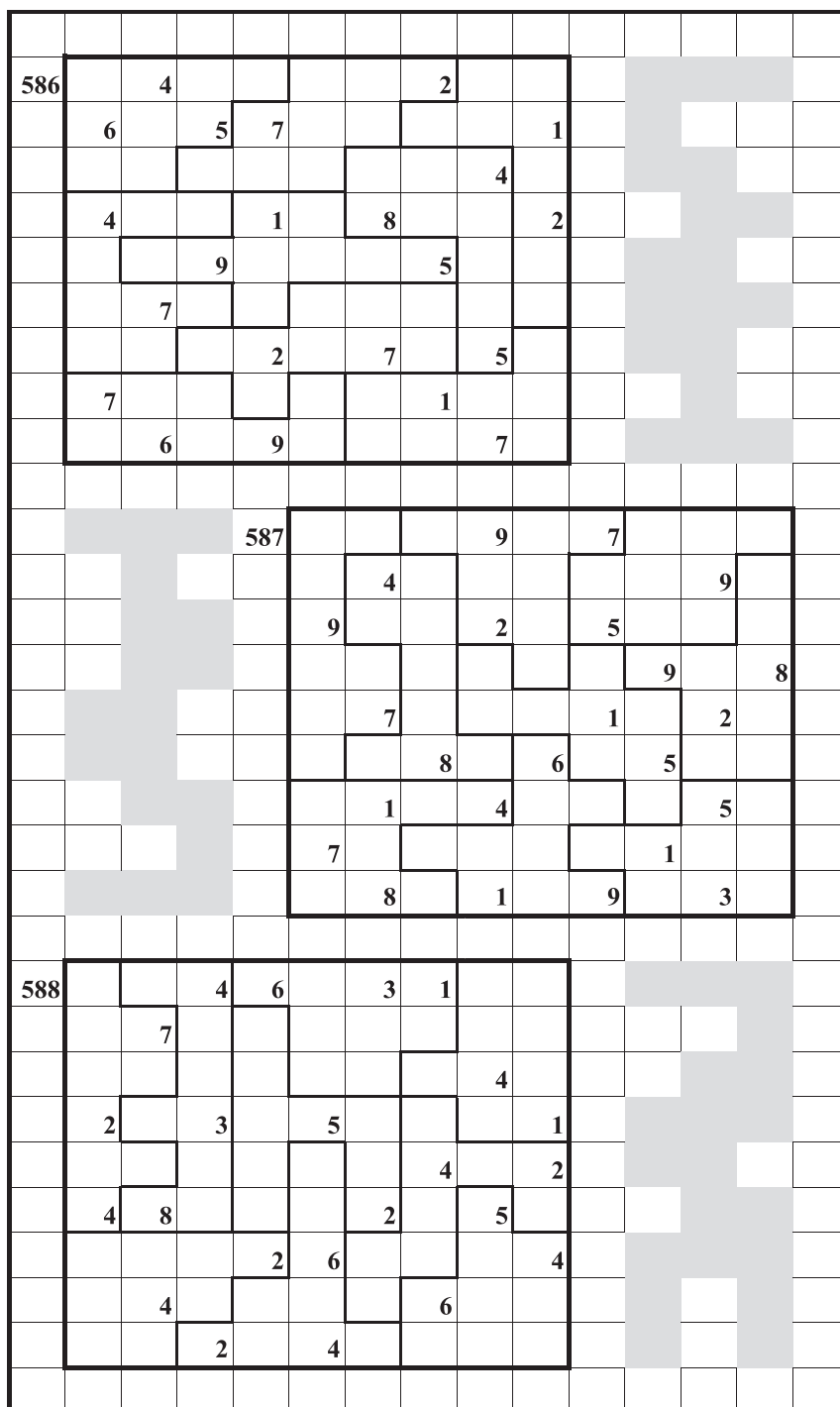


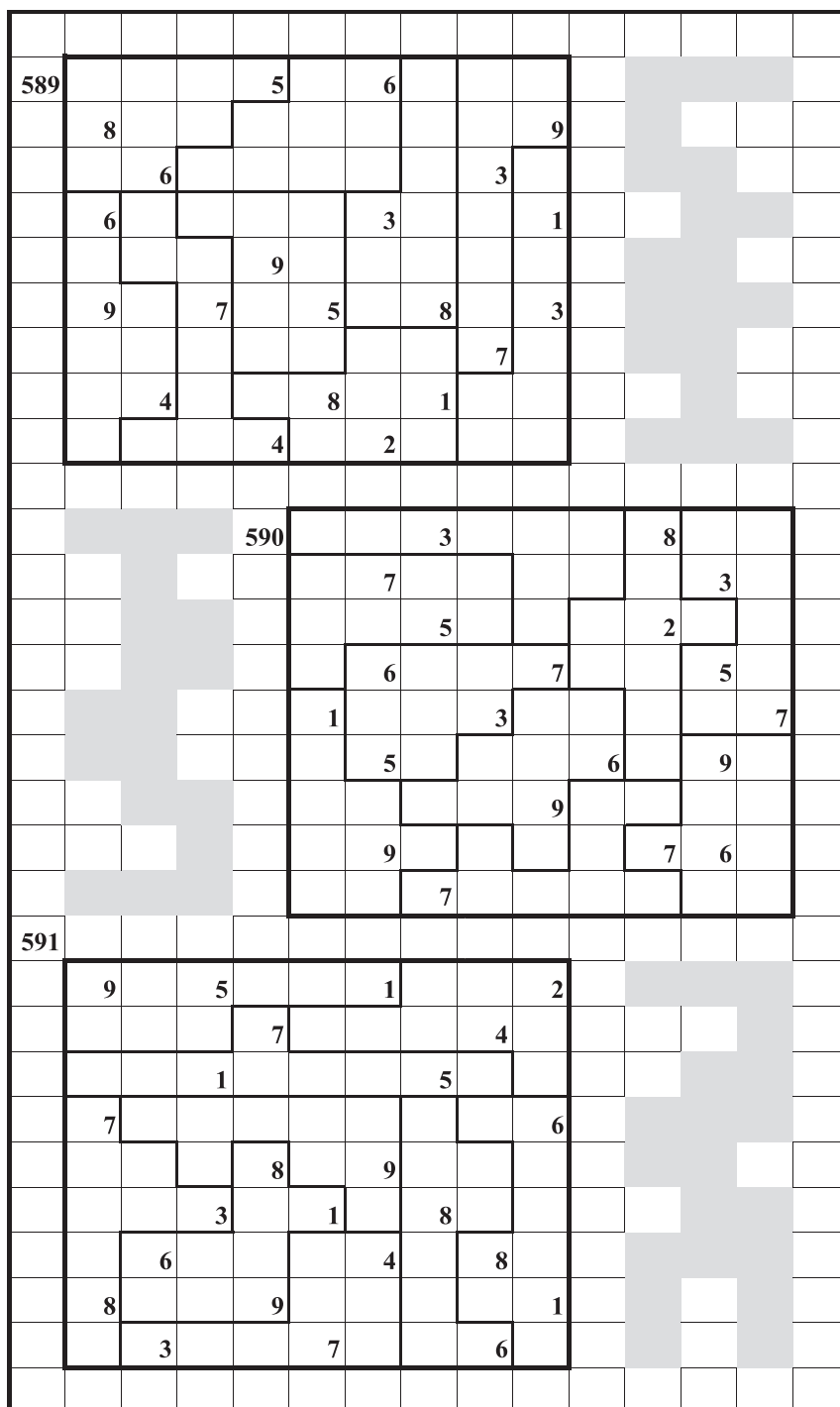


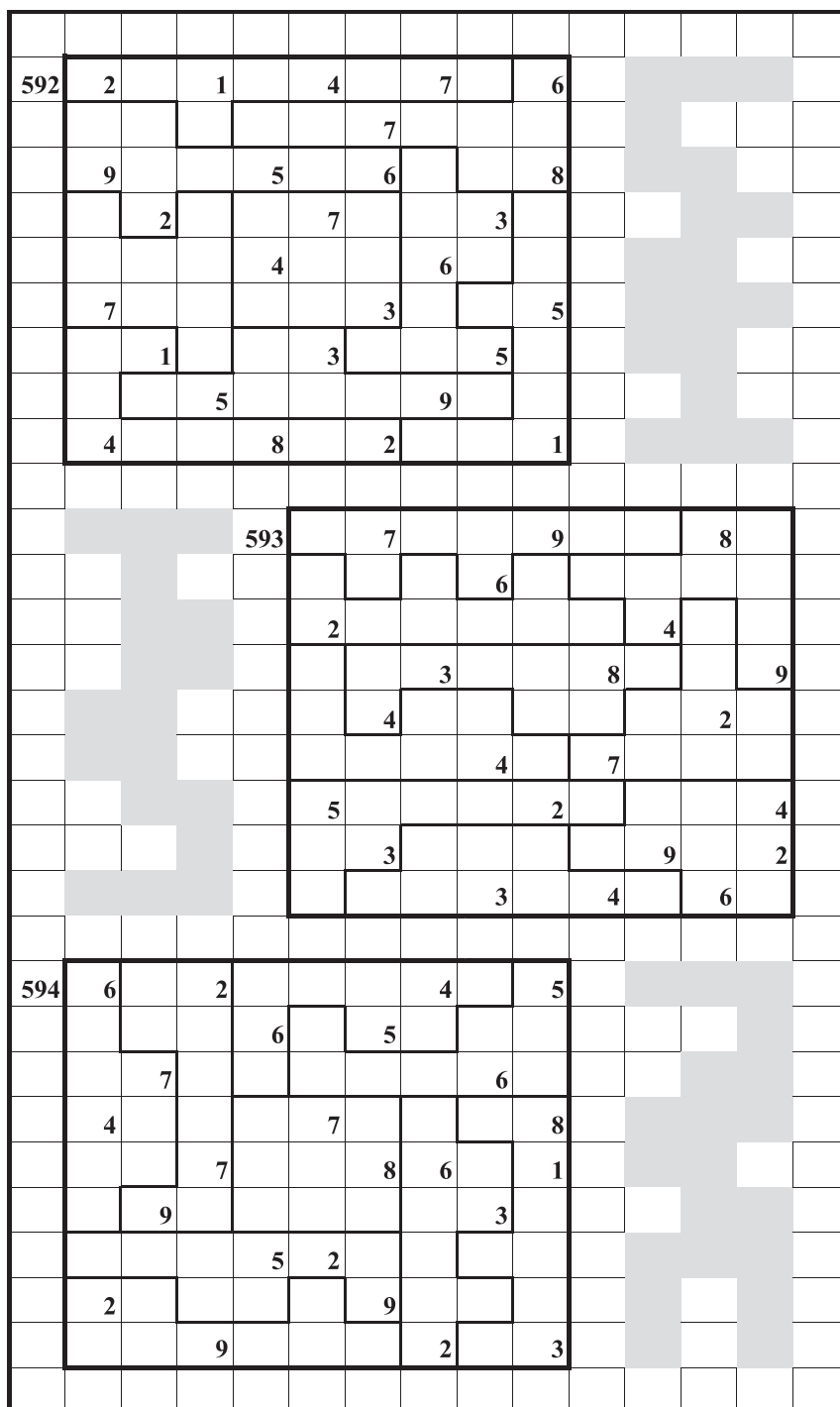


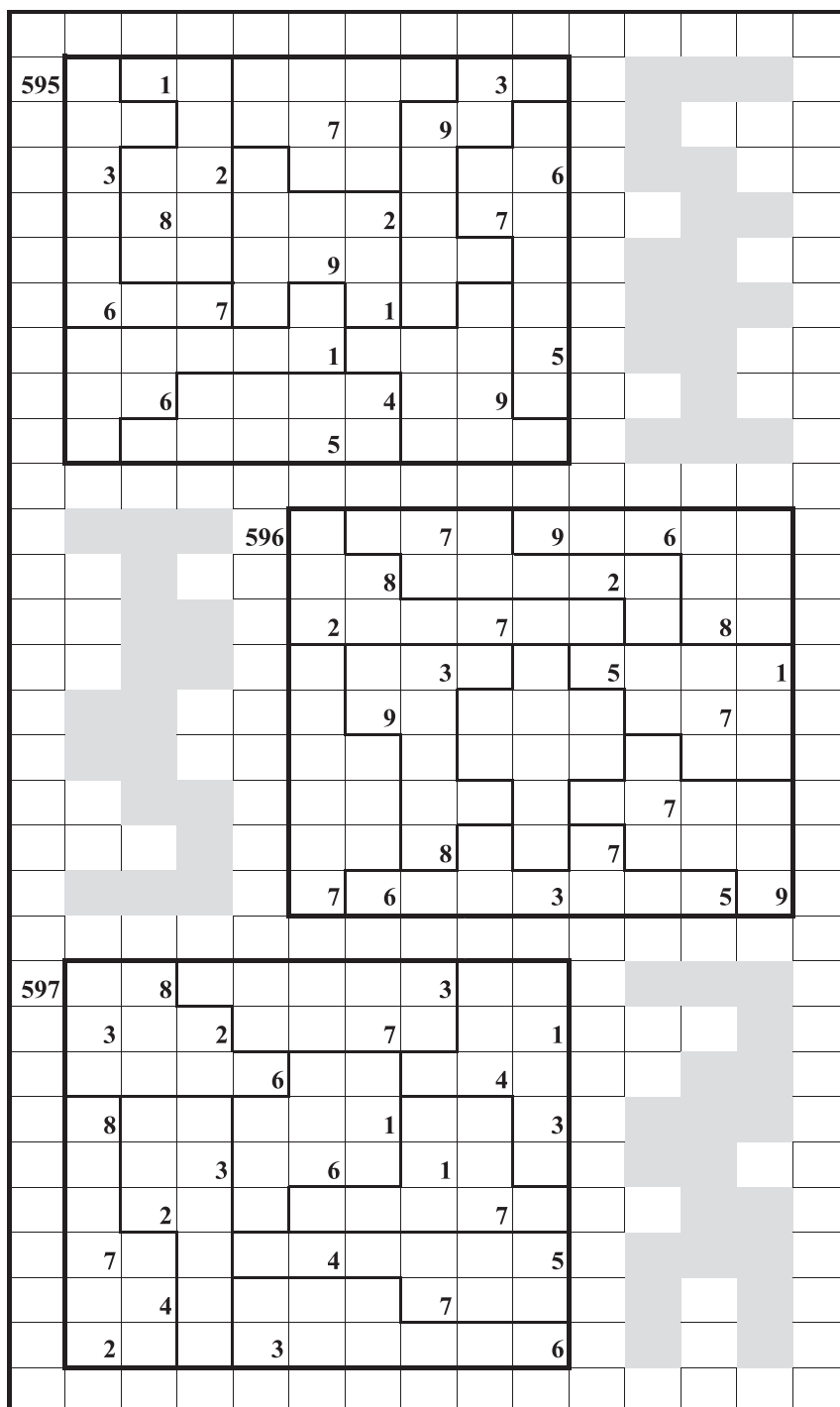


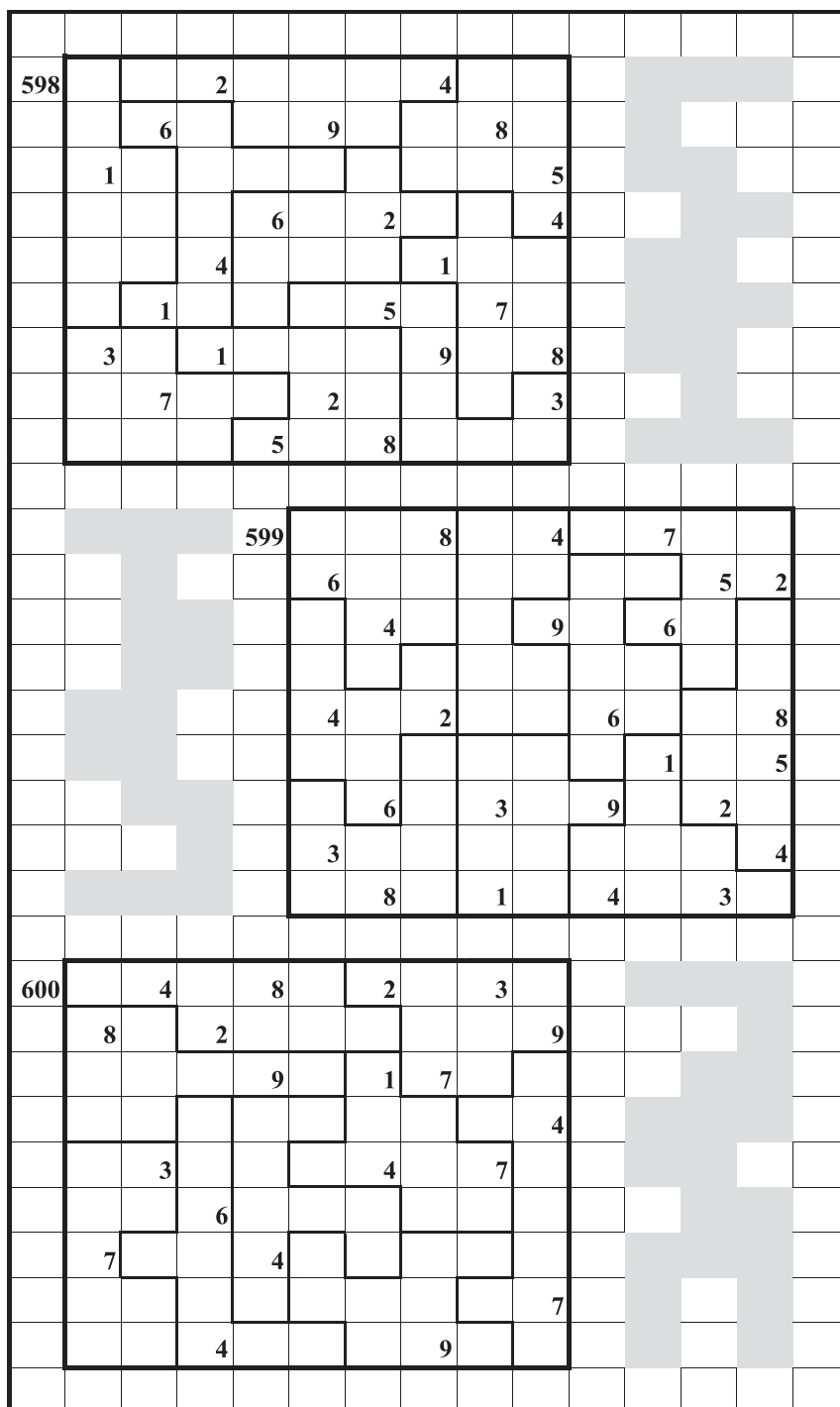


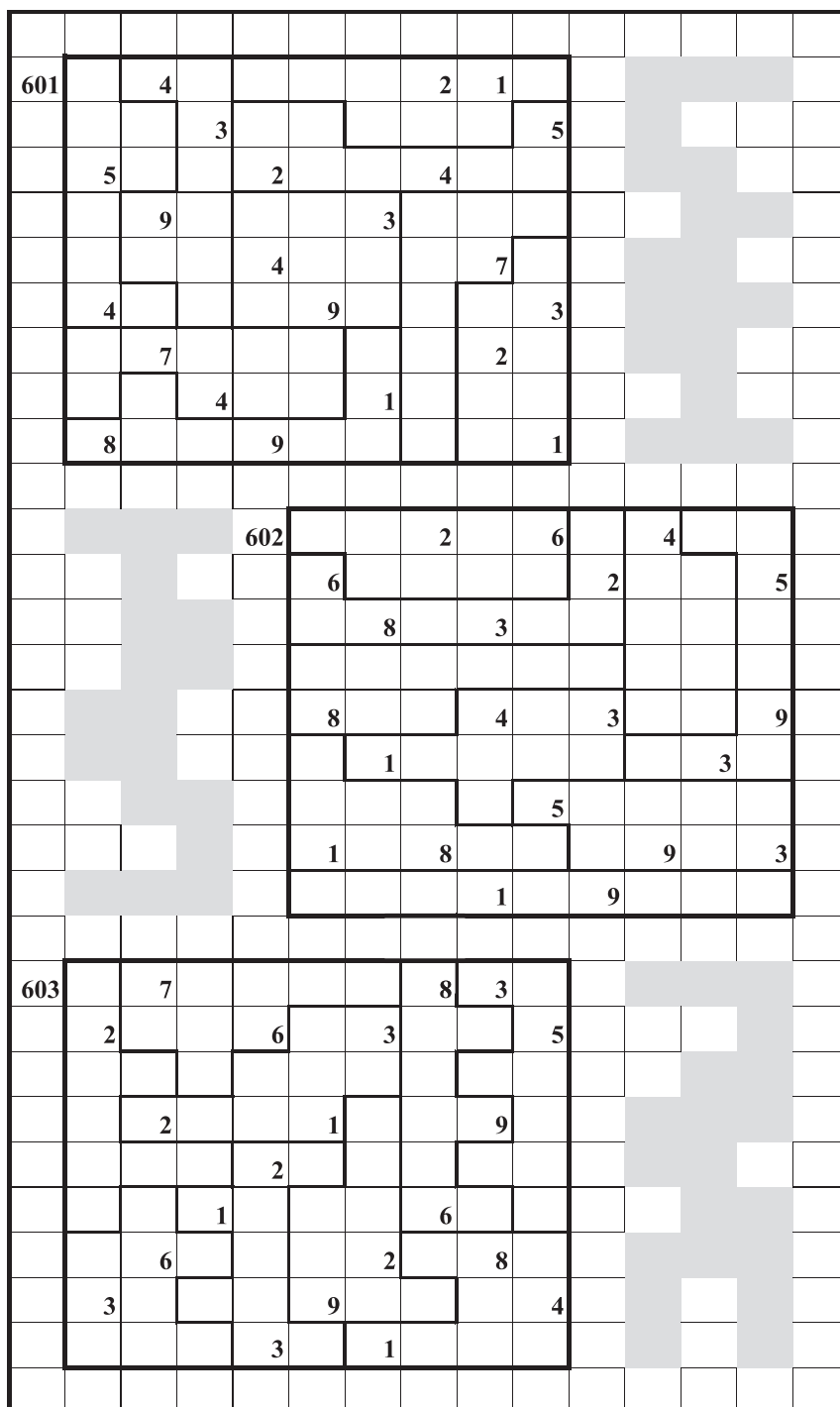


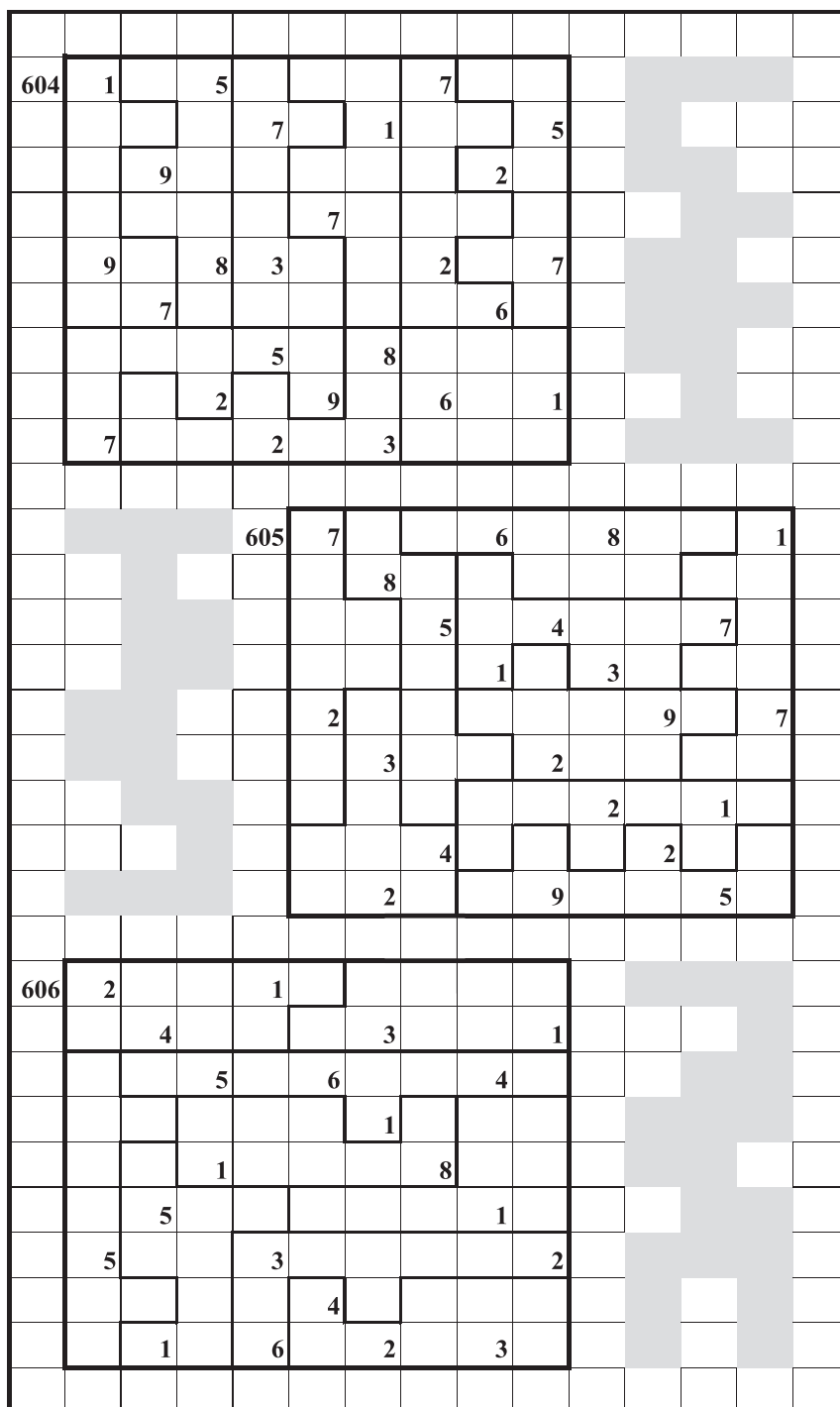


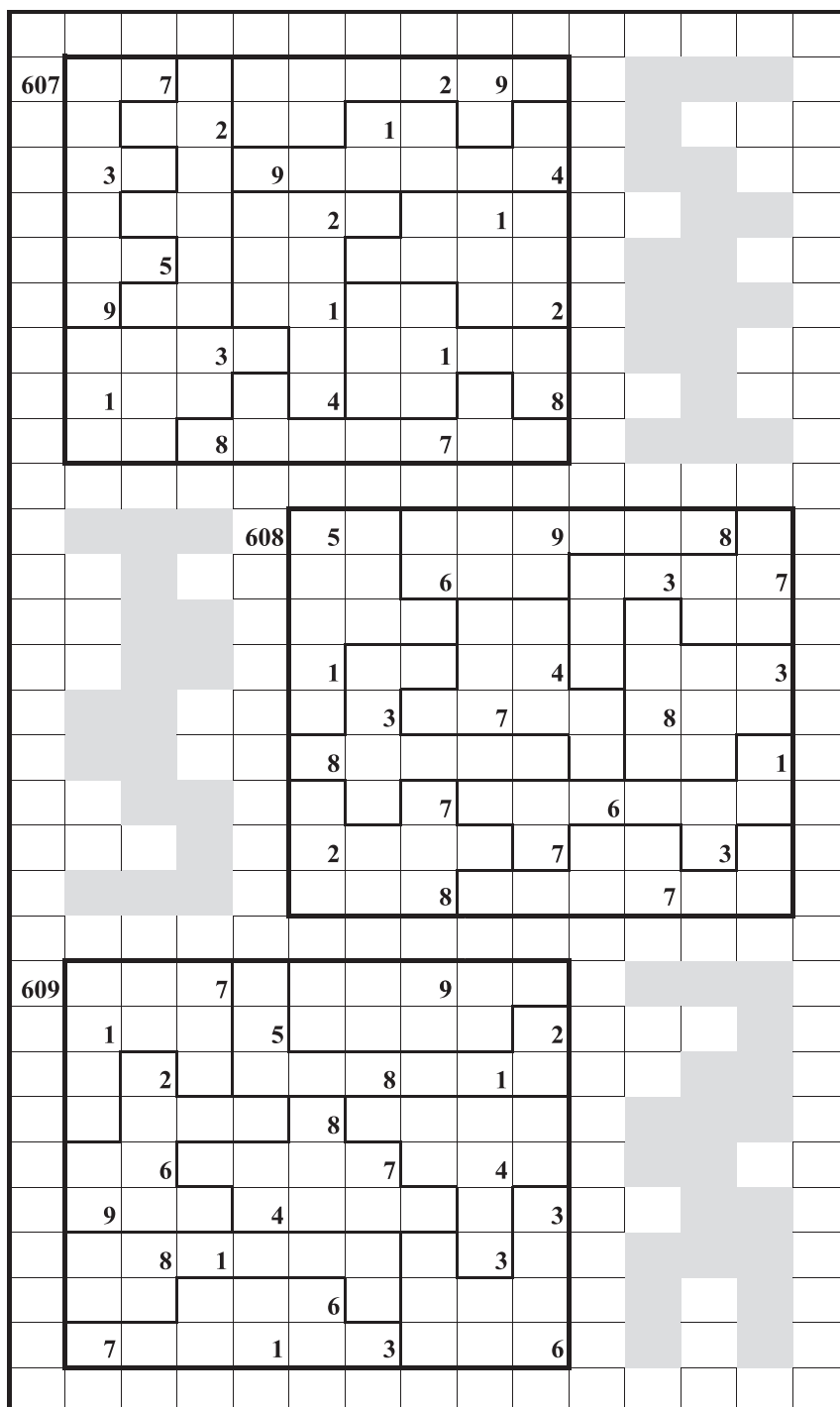


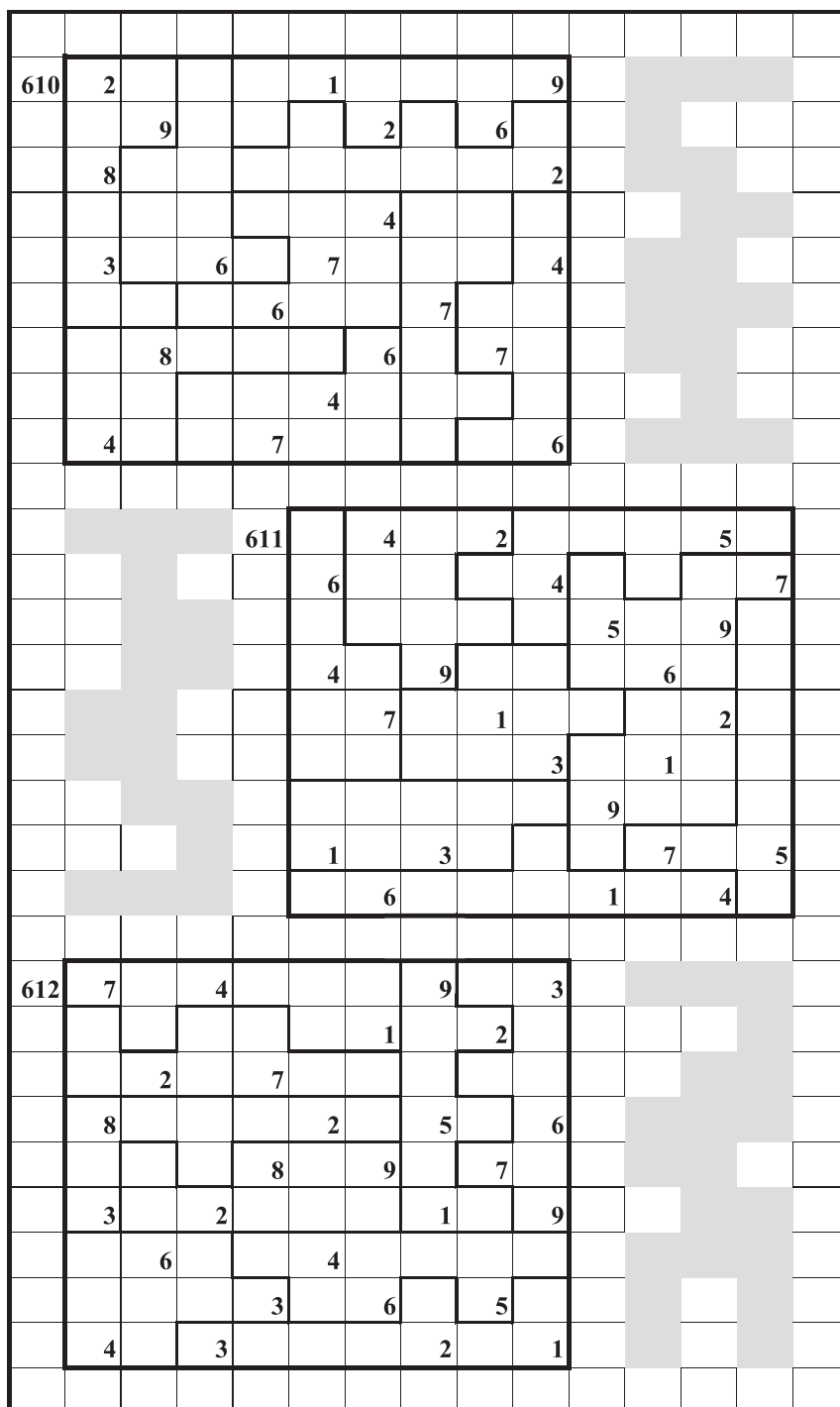


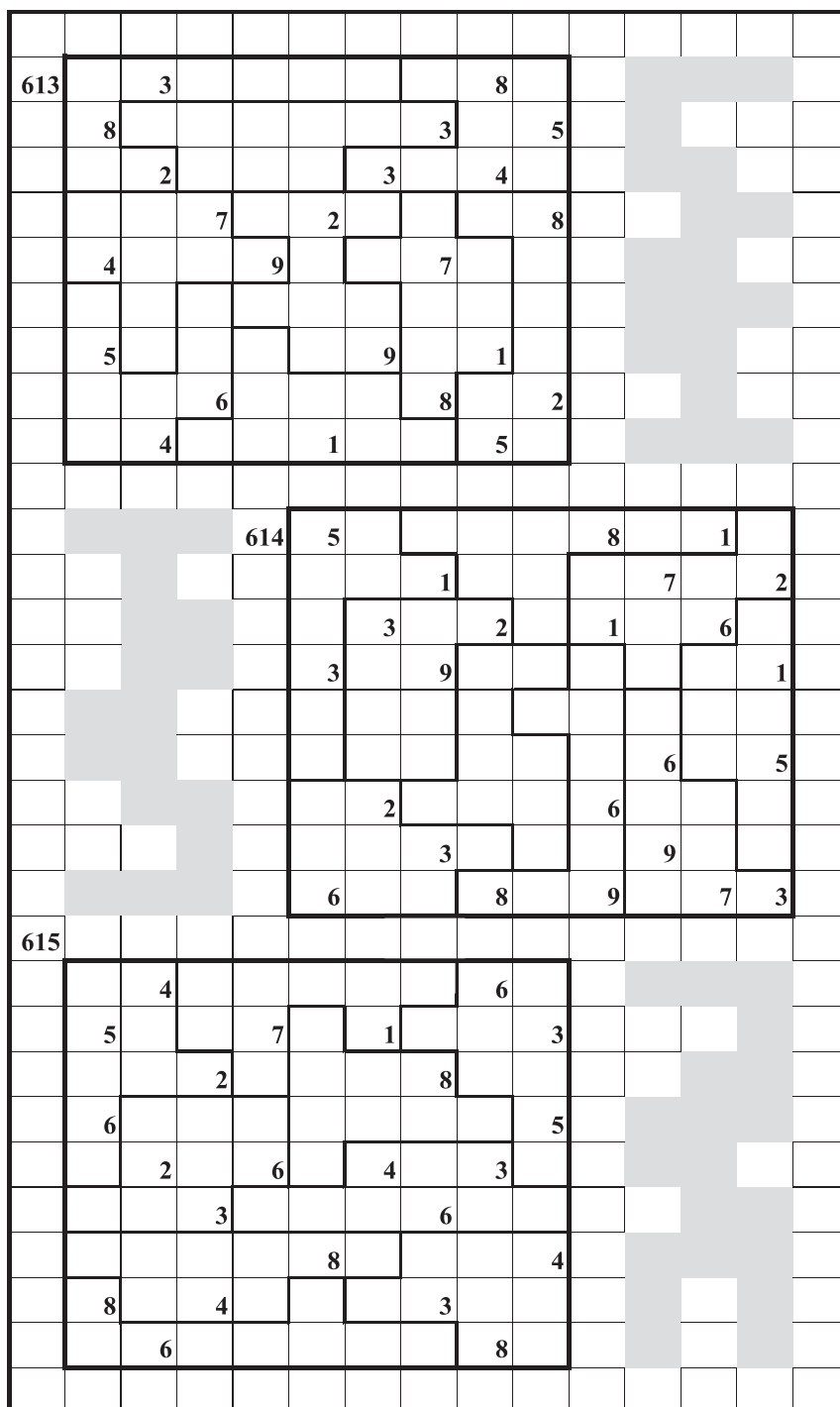


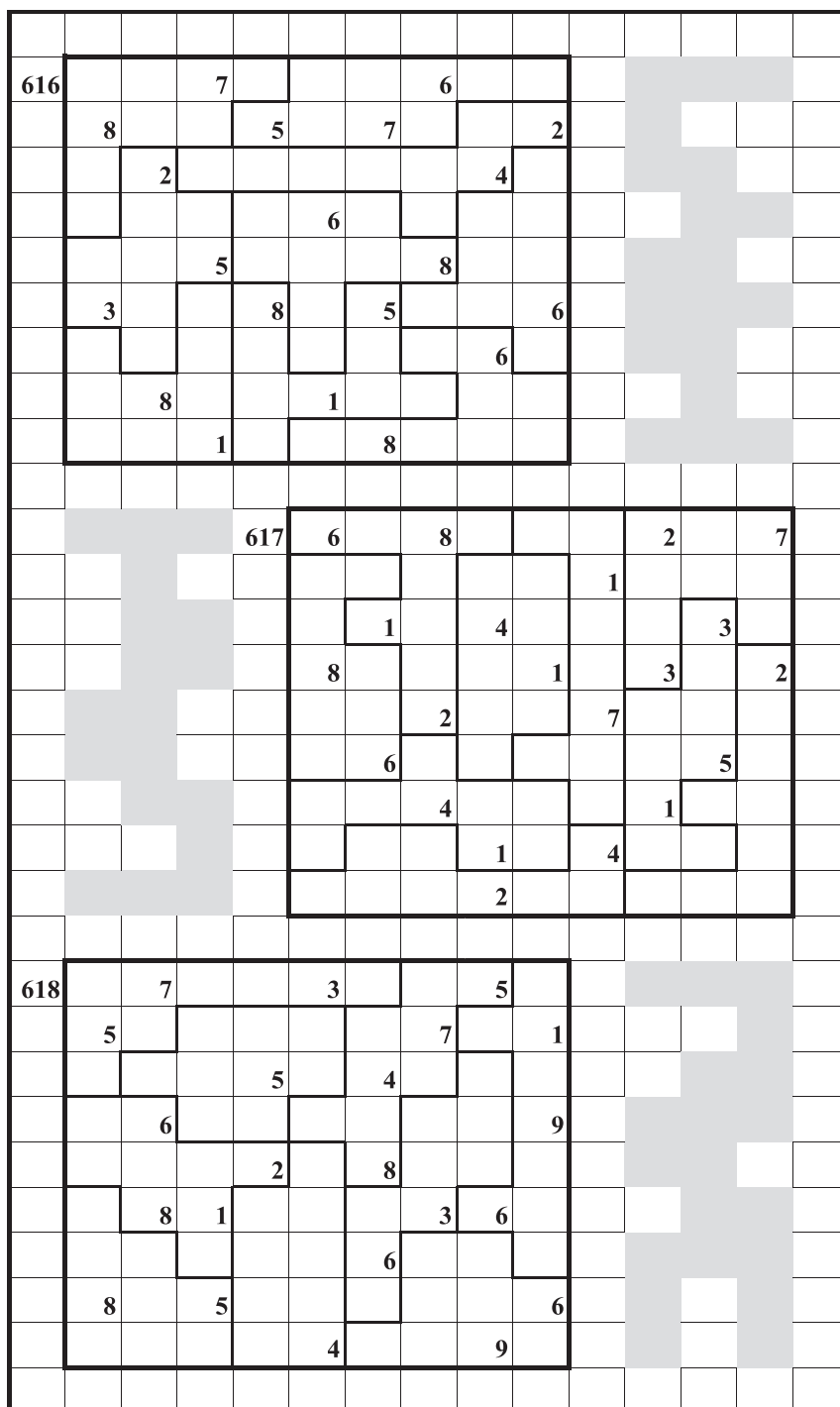


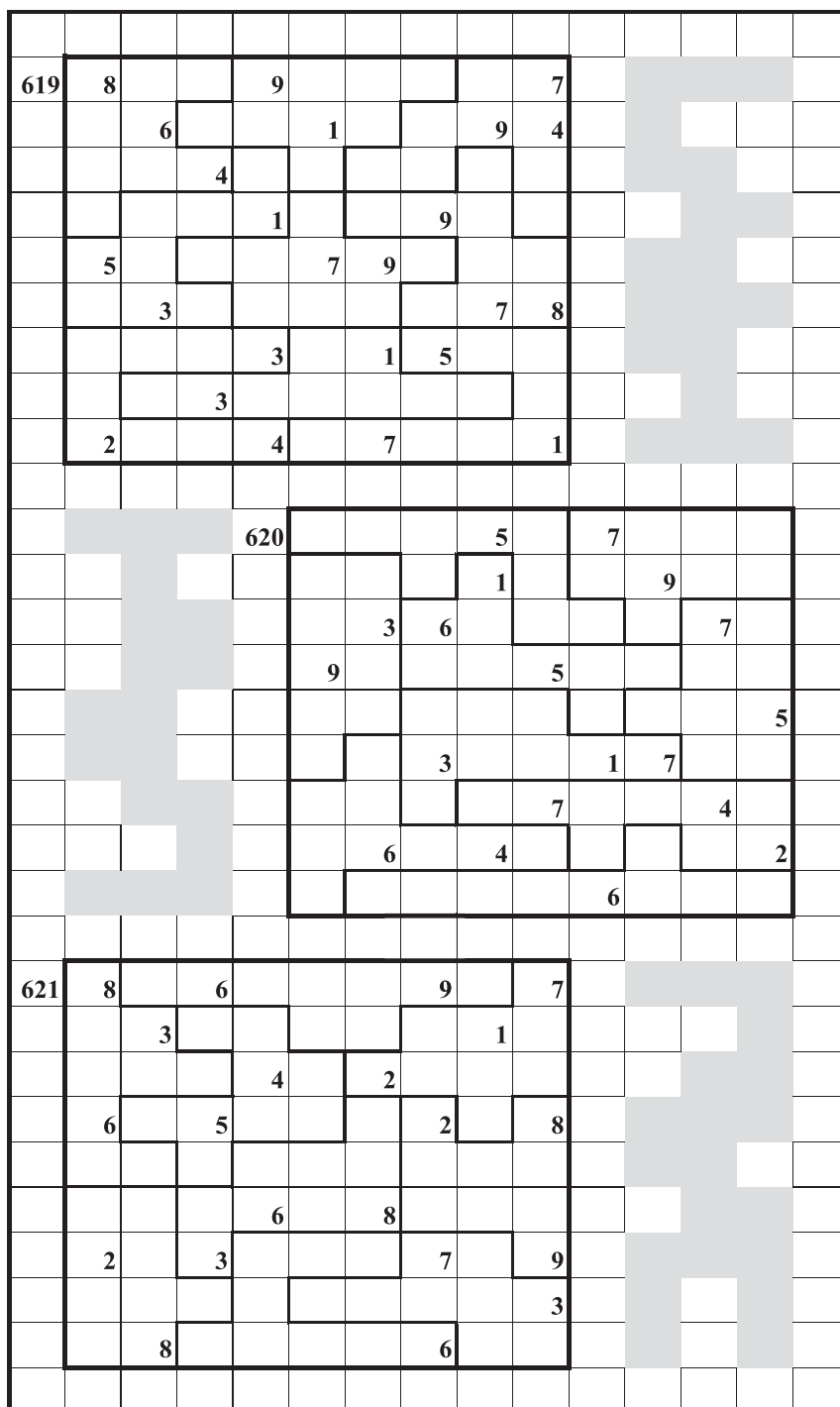


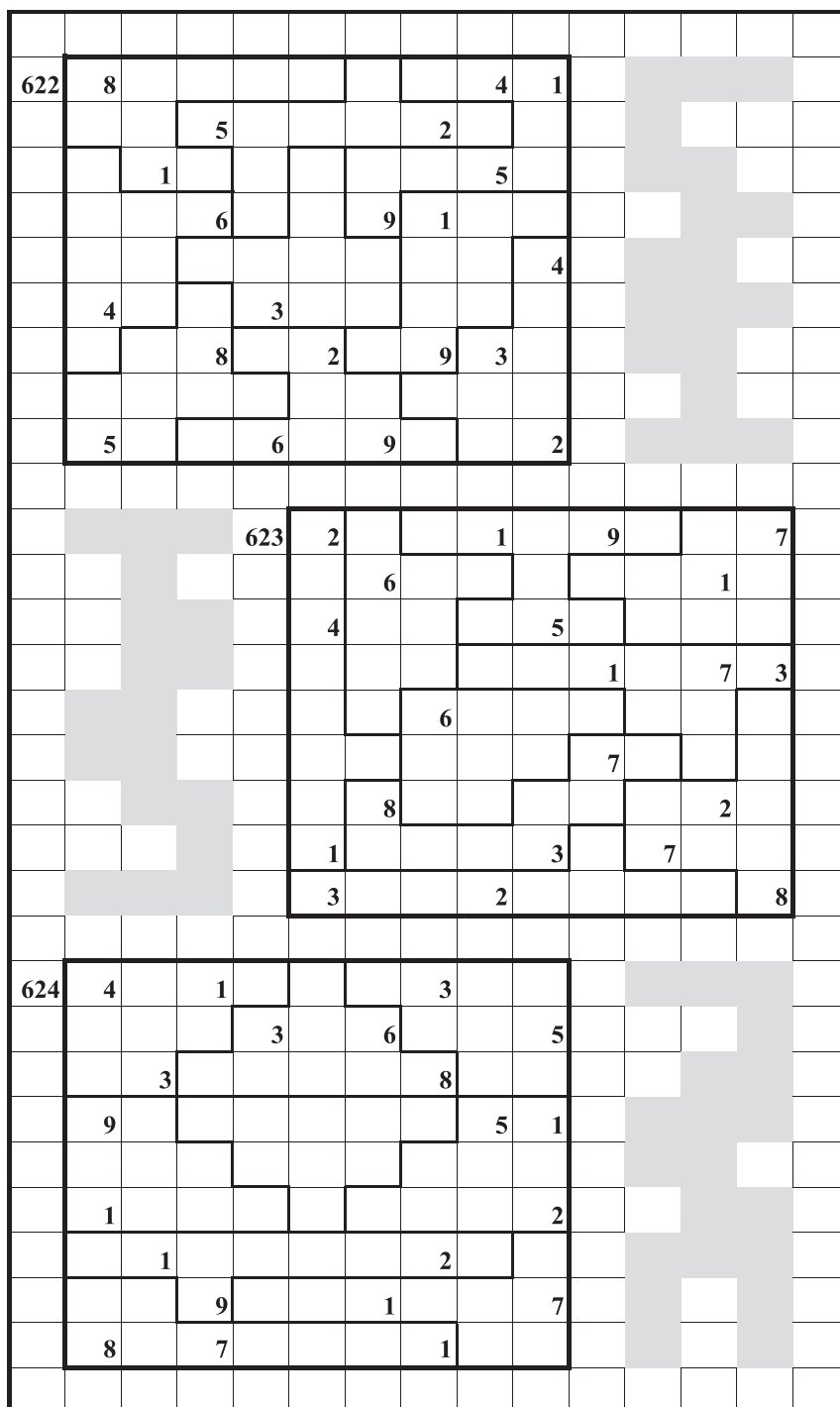


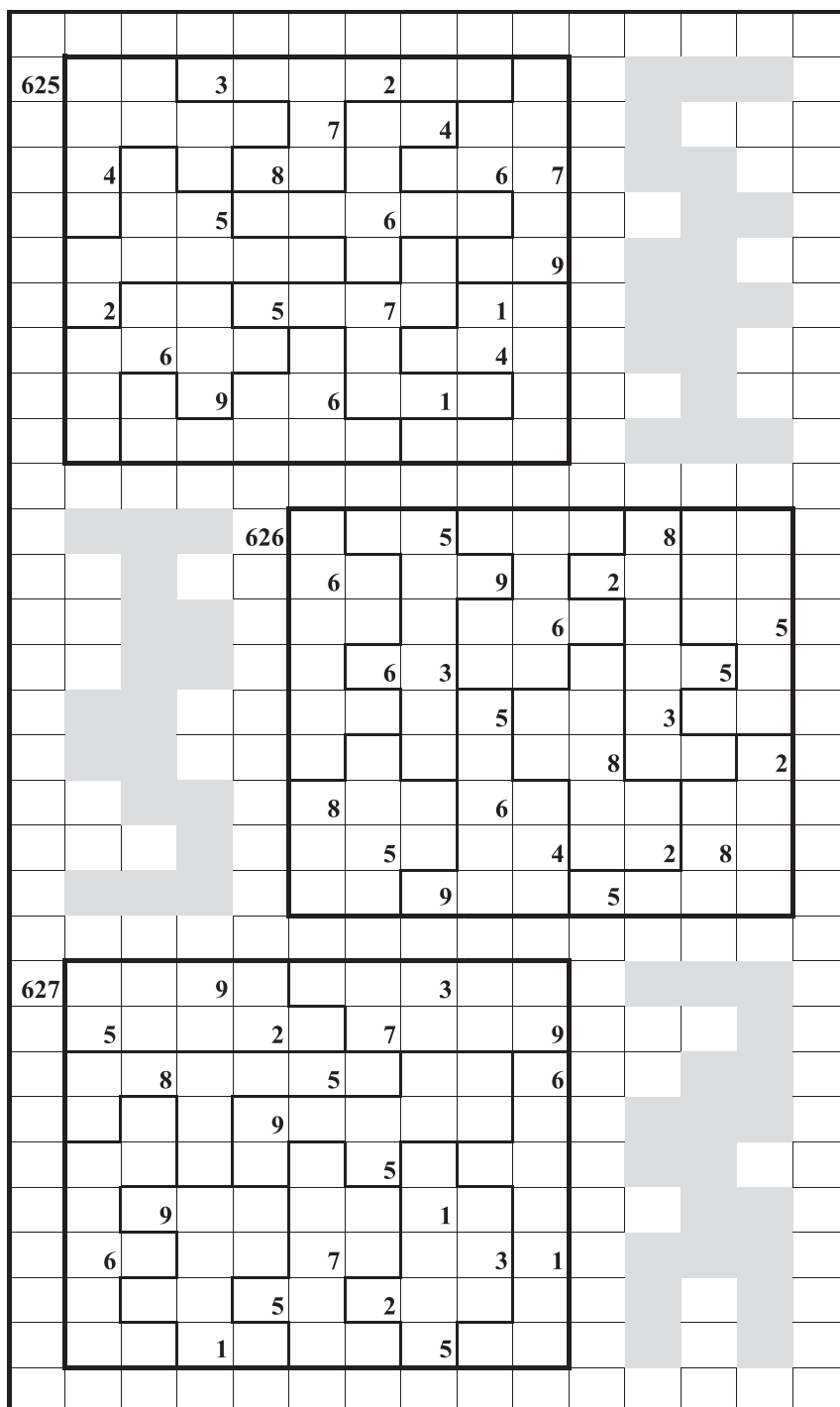


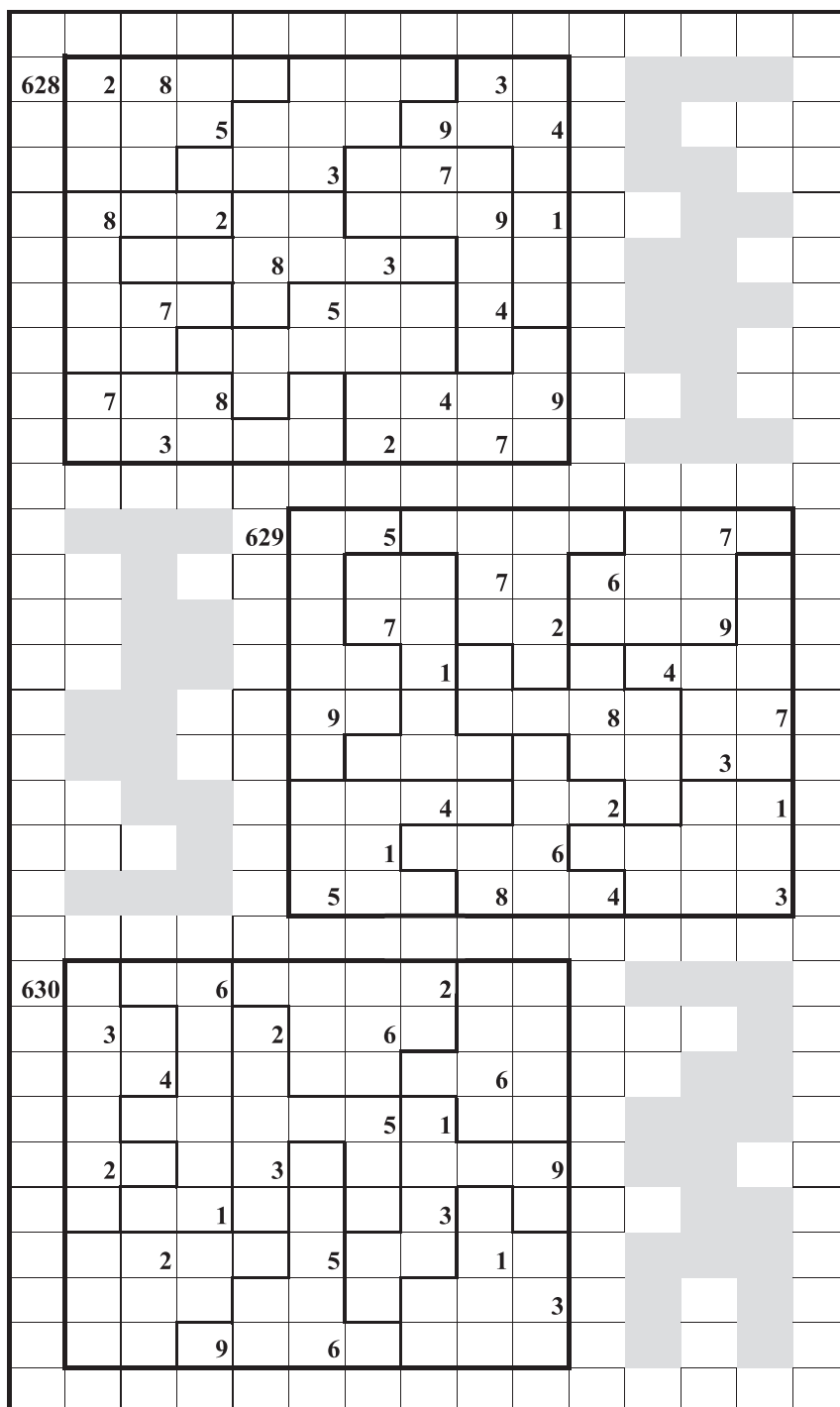


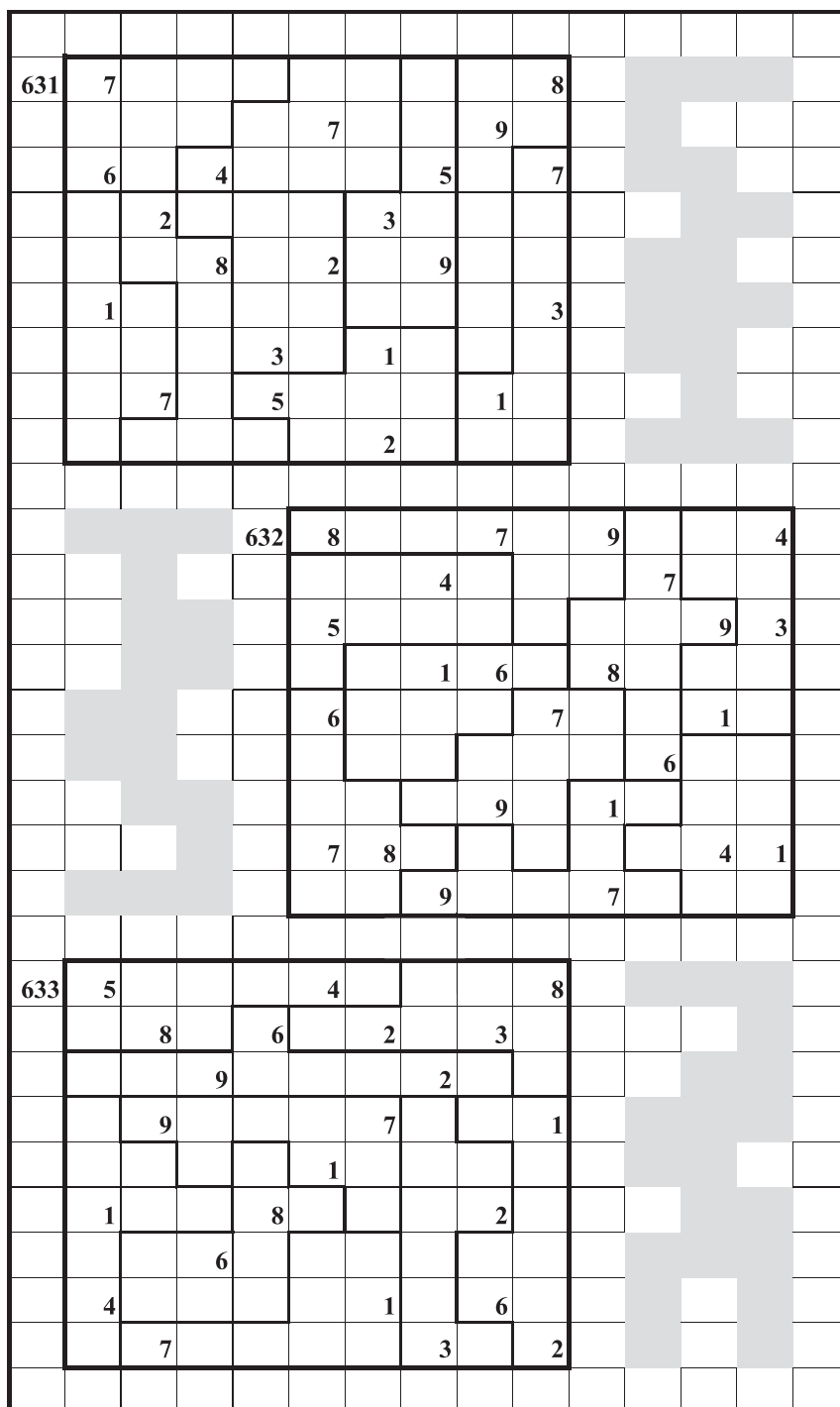


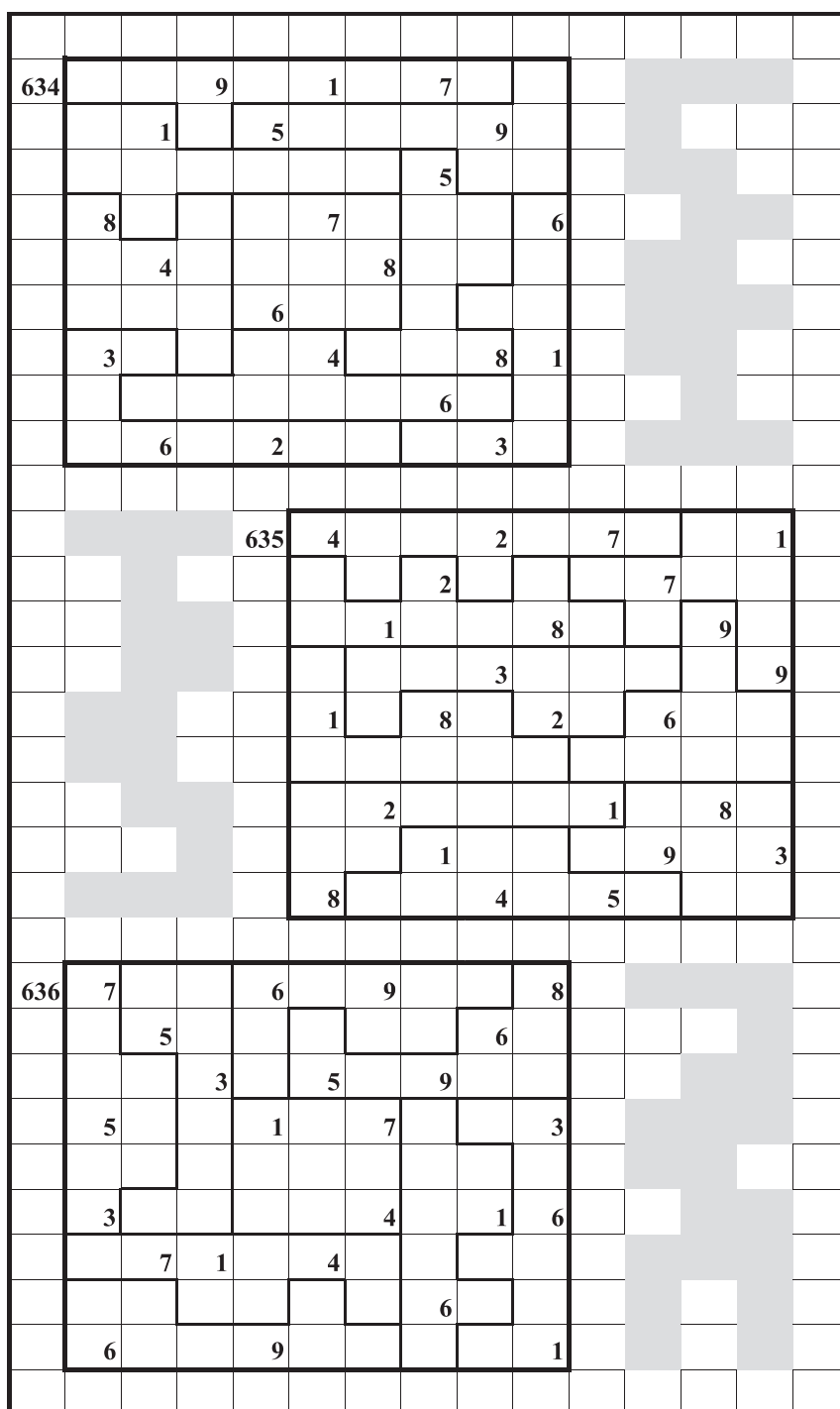


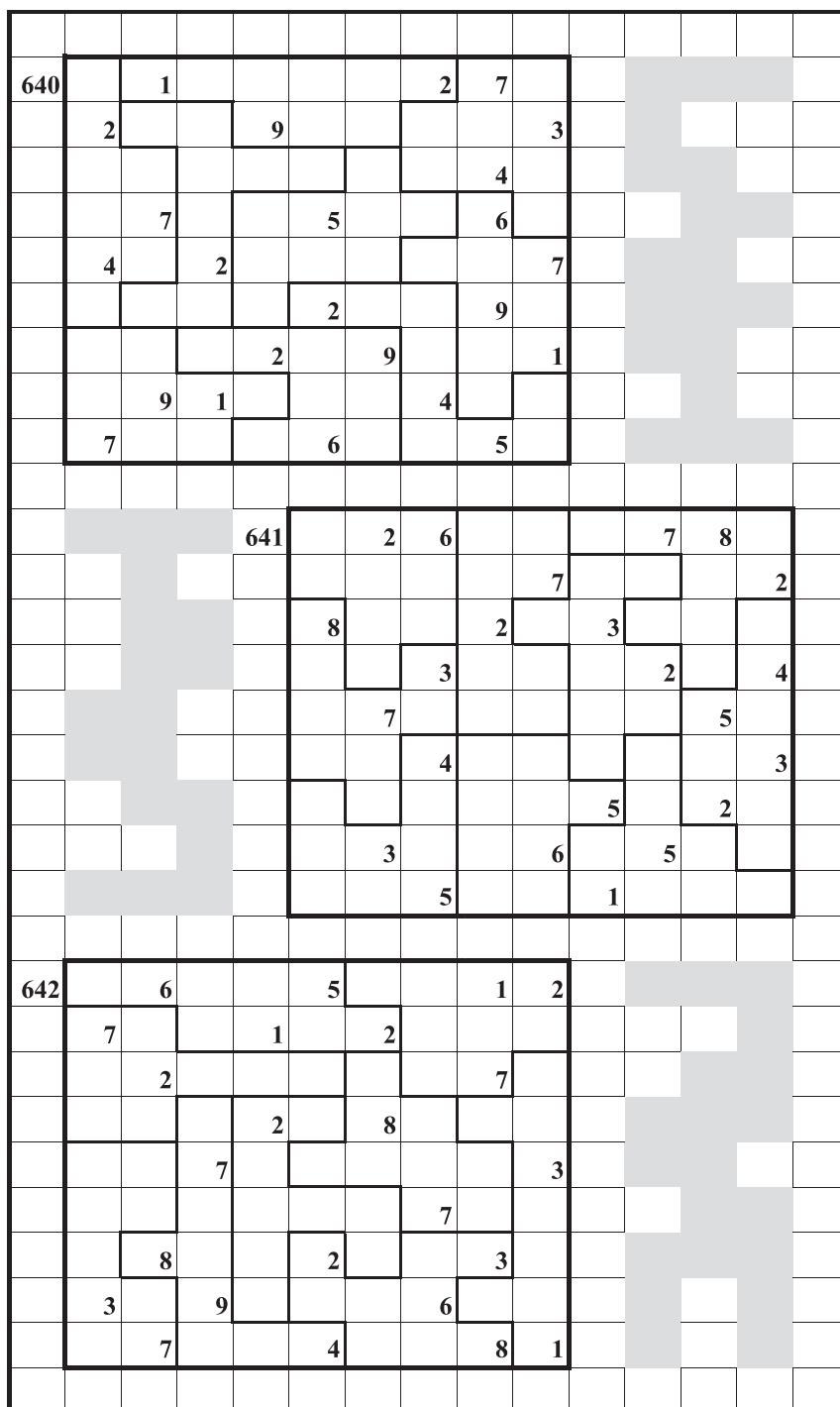


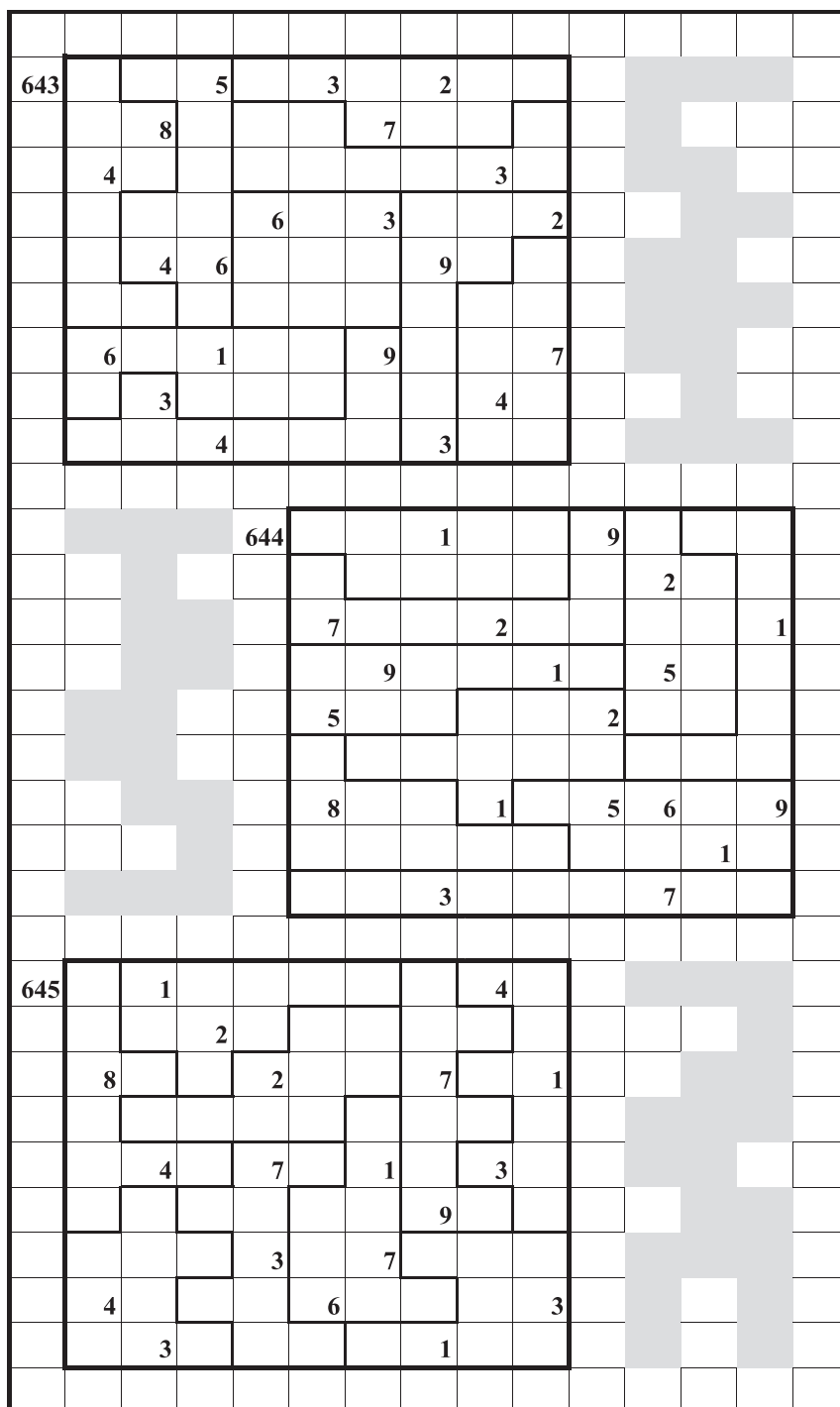


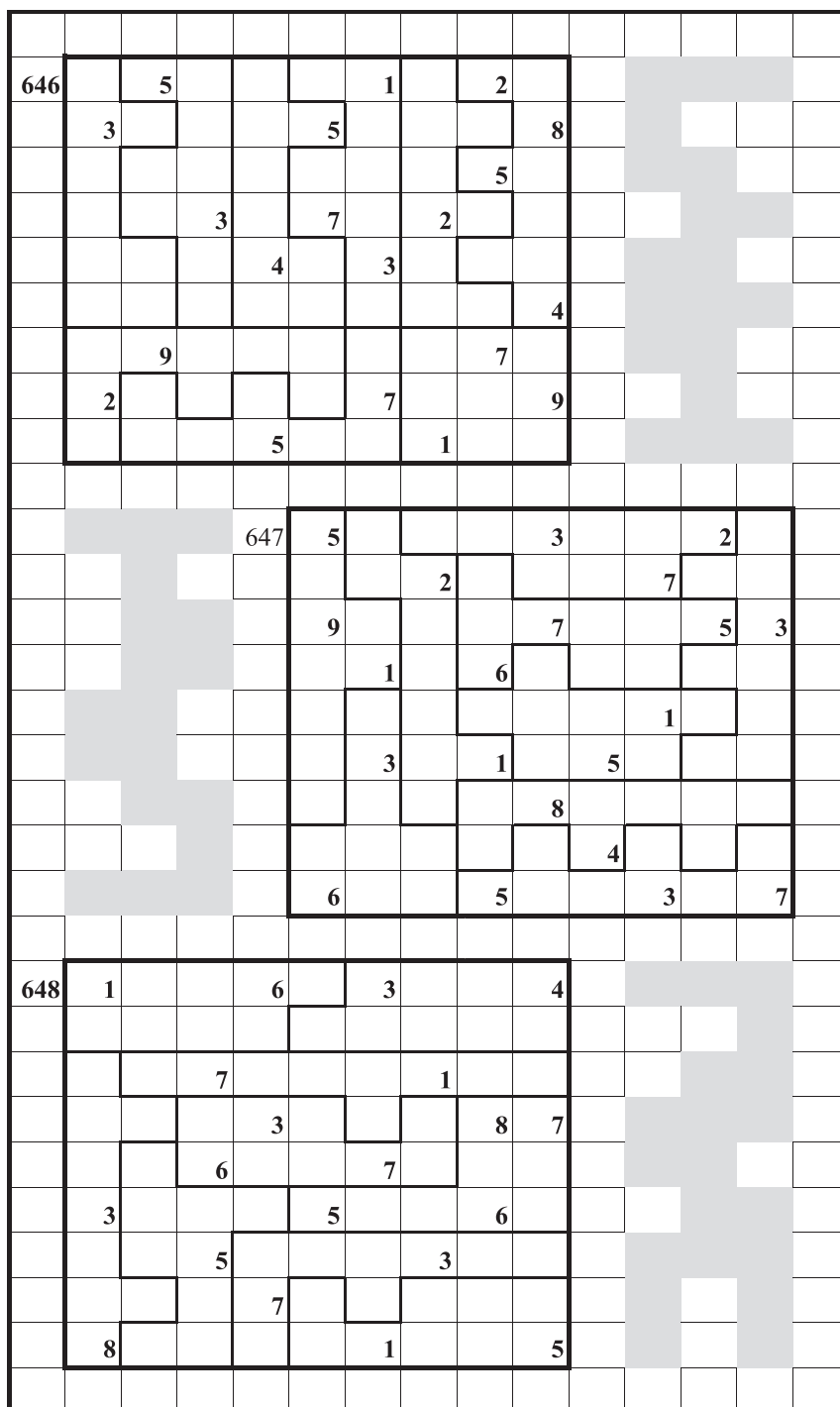


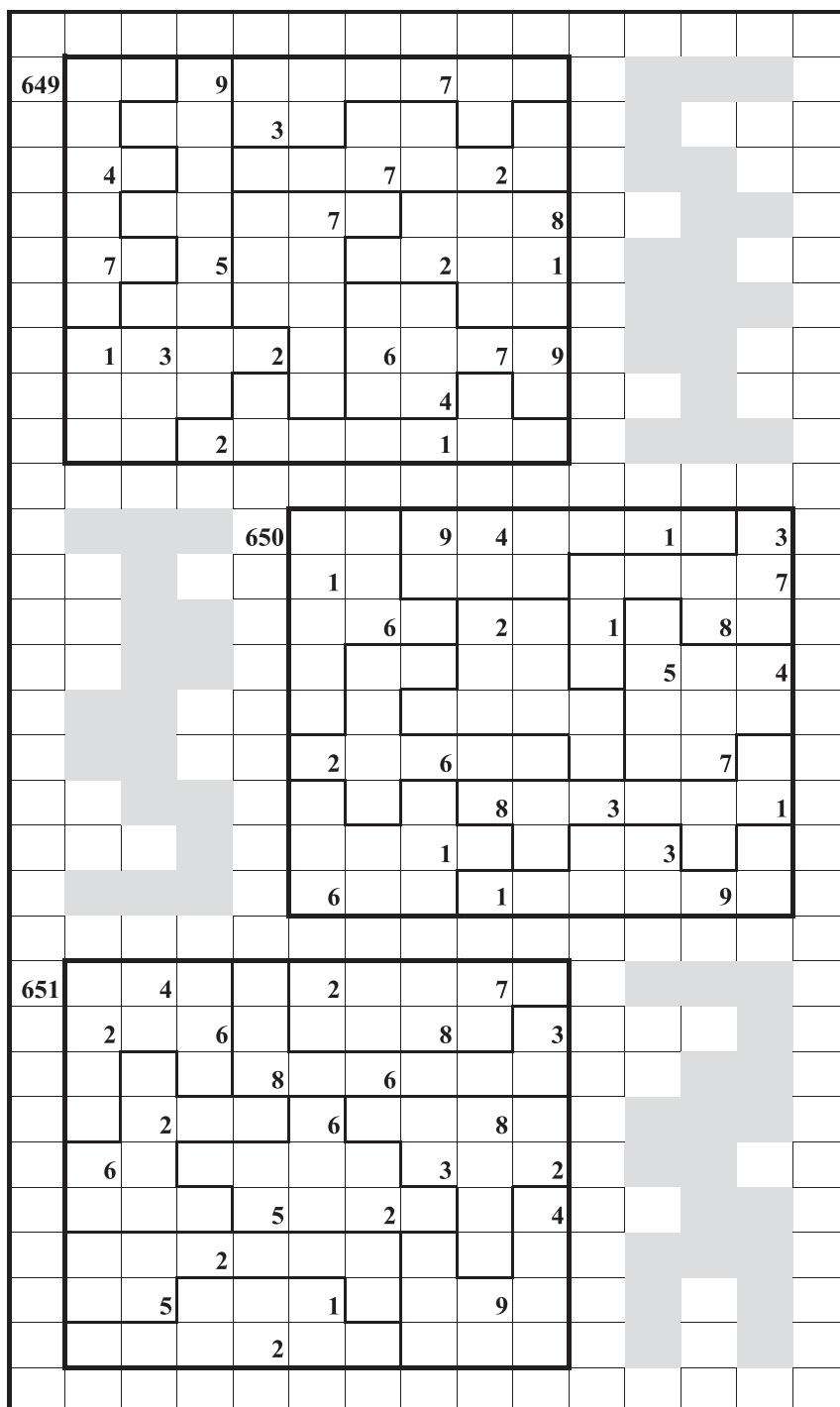


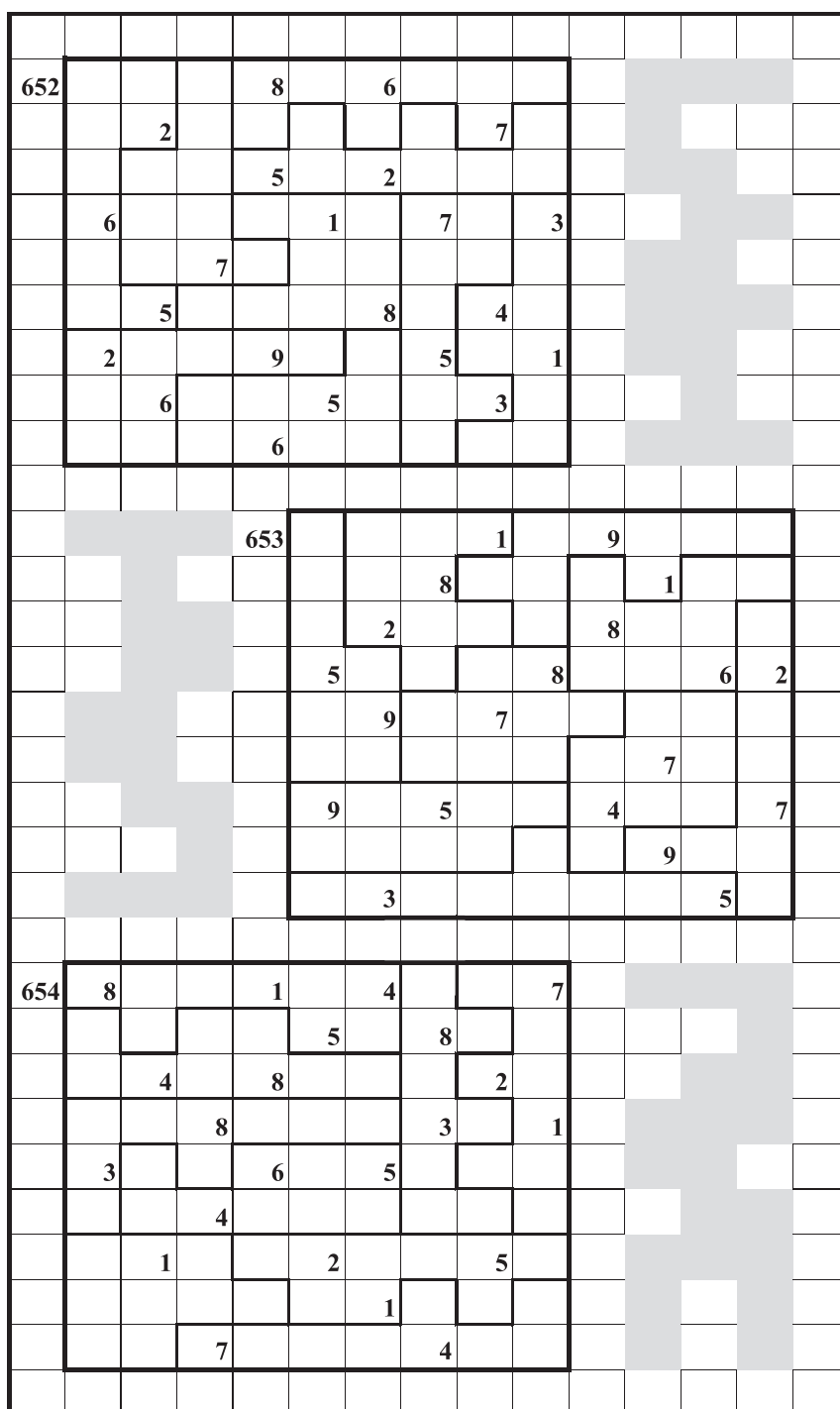


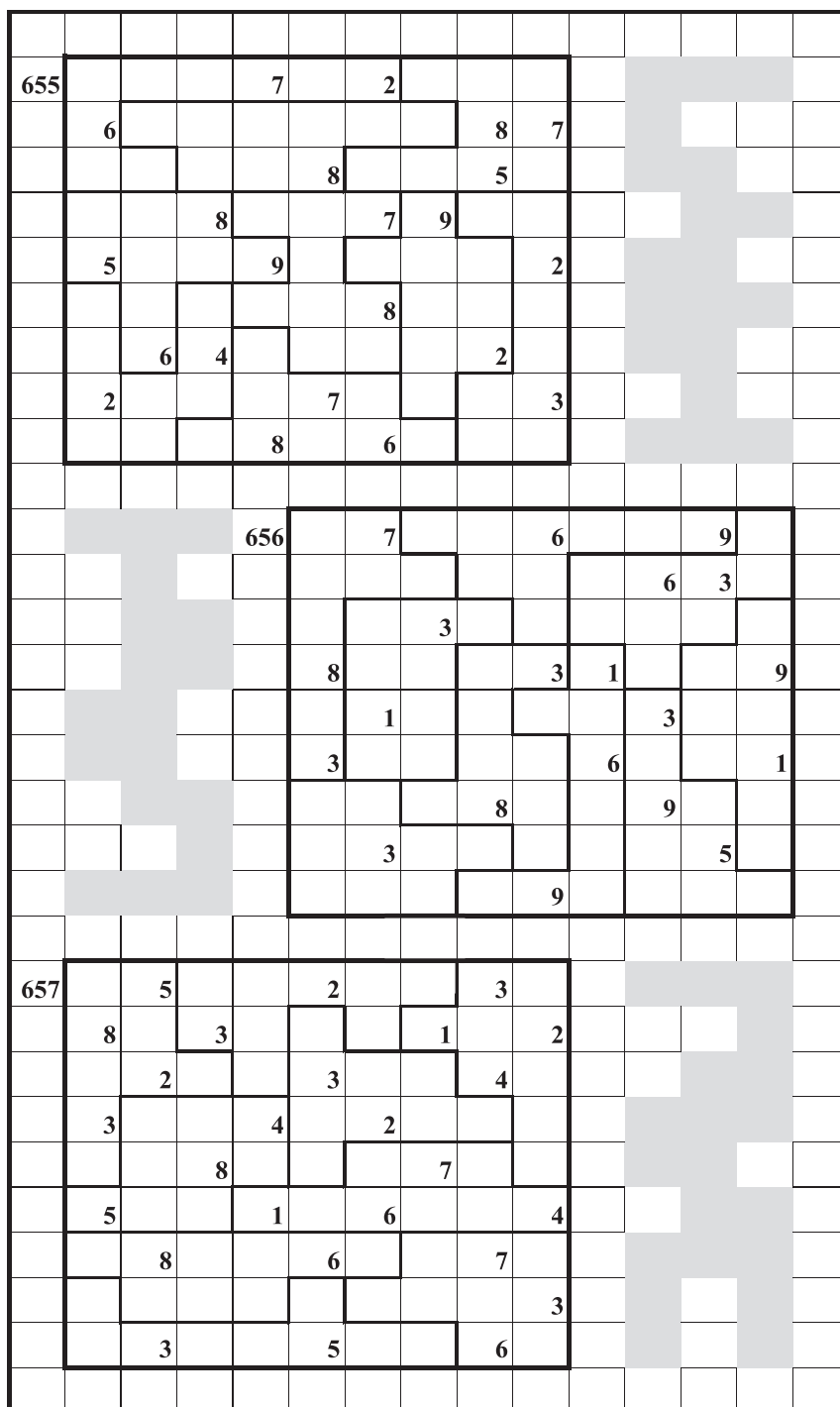


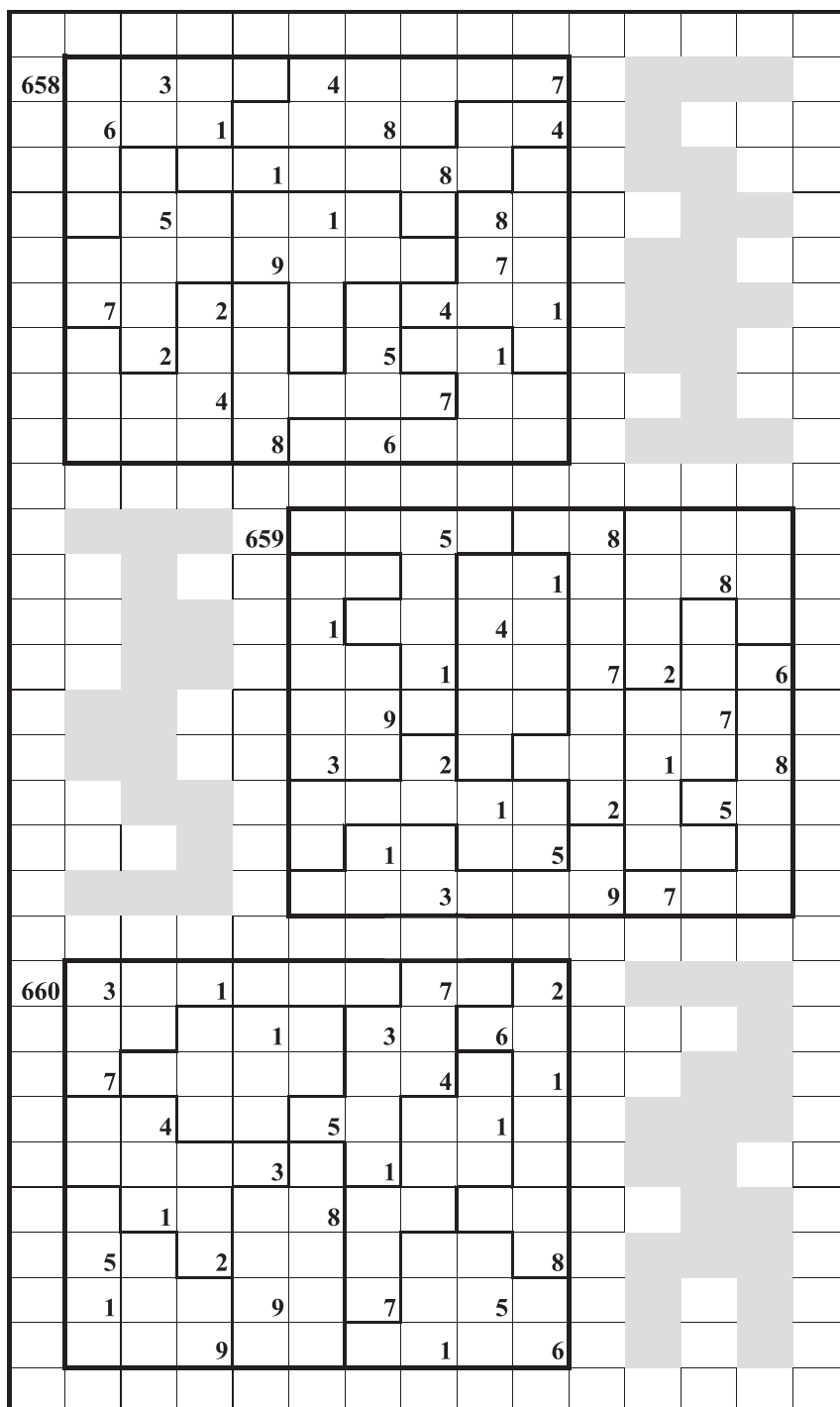


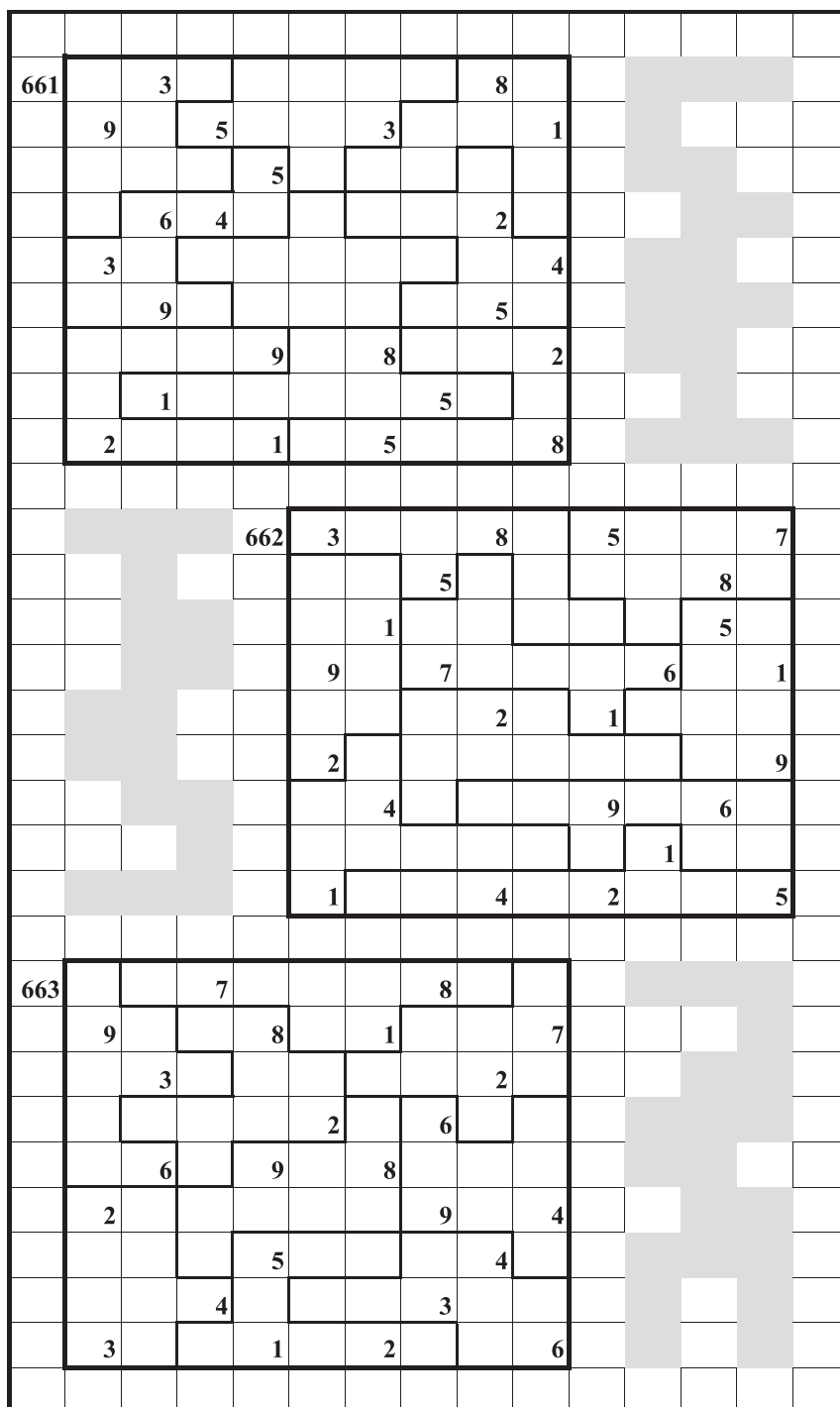


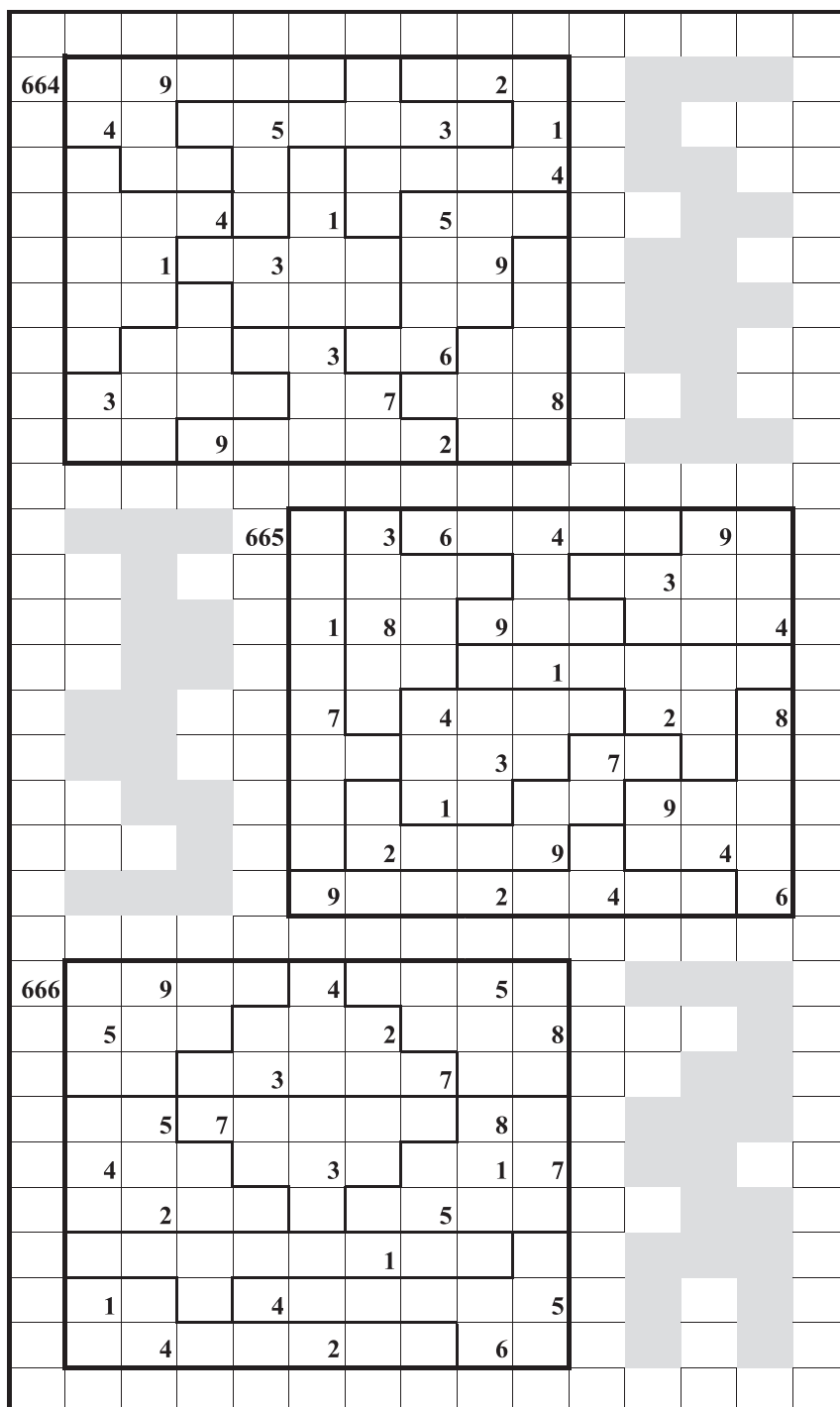












THE CHEAT PAGES

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408

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458

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456

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459

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460

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463

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464

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641

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644

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642

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645

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646

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649

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647

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650

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648

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651

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652

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655

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653

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656

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654

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657

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658

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661

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659

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662

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660

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663

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664

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665

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666

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ACKNOWLEDGEMENT

The author acknowledges the fact that the concept of the 'MAGIC SQUARE' has been created by her as 'a different kind of SUDOKU form'.

Many different forms do exist today, like the classic Sudoku with a 9X9 grid or 6X6 grid or 3X3 grid formations and some others like - Mini, Jigsaw, Killer, Samurai etc. however, **none existed in the PUZZLE FORM, which the Author has chosen to create and depict, for all.**

For this, the Author acknowledges the Books, Encyclopedias, Web sites, Wikipedia and ALL the people who guided her, to understand this ancient method in its totality. It is because of this in-depth understanding, of the significance and the differences of these interesting squares, that the wonderful MAGIC SQUARES were created by her.

These 'Latin Squares' fun books of logical and deductive calculations, remains what it is – **A FUN BOOK OF GRIDDED NUMBERS.**

ABOUT THE AUTHOUR

Neeru Das, holding a Masters in English Literature and in Education, has been an educationist with three decades of experience.

She was the Chairperson and Founder Trustee of Drishtikone, which was working at the grass root level for the socially and economically challenged people of Kali Kumaon, Uttarakhand, India.

Edutainment, in fact, has been her avowed goal. She was not only the principal of Raven Mt. School Dudhpokhra, Champawat Uttarakhand, India but also has been deeply rooted and committed to the cause of universal education.

Having found the much awaited time for herself after entering her 60th year, she has now become an ardent traveler. The thrill of her travels is shared by her, through reviews of the places of her visits, and are being placed in Google Maps, of late.

Neeru Das has a vivacious personality and is able to move people towards goals of common good. She is a poet who believes in her poetry and is fond of treasuring them as gems of a life travelled. Not only is she a believer of writing 'First Ever' books for the sake of Education and Knowledge but at present is still working at it, in all sincerity.