

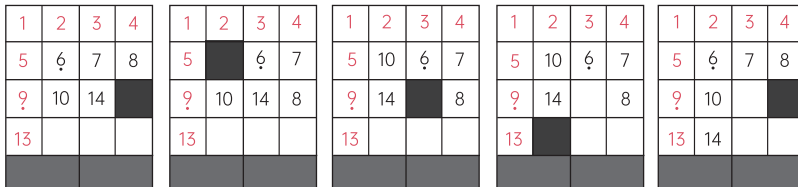
mideer



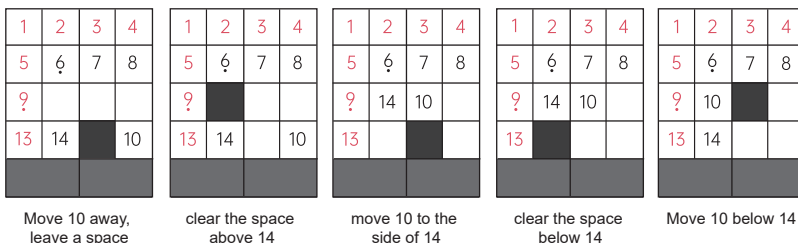
ADVANCED
INTELLIGENT KLOTSKI
CUBE MAZE

4 Step 4: Restore 10 and 14

Case 1: 10 is already in place, 14 is on the outside.



Case 2: 14 is already in place, 10 is on the outside.



Case 3: If 10 and 14 are in reverse positions, handle them in any of the above two ways.

5 Step 5: Restore 11, 12, and 15

This step has no difficulty. Adjust the order with a little sliding. If there is a need to exchange two positions, it indicates no solution. This might occur due to a special unsolvable situation created by random placement. The solution is to pick up and replay.

INFORMATION

Product Name: mideer Educational Electronic Building Blocks - Cube Maze
Product Model: MD1418
Recommended Age: 6+
Material: Plastic and electronic components
Product Dimensions: 208mm*124mm*24mm
Compliance Standard: GB 6675.1-2014 GB 6675.2-2014 GB 6675.3-2014
GB 6675.4-2014 GB 19865-2005
Package Contents: Chessboard × 1, Large square chess piece × 1, Small square chess pieces × 15, Rectangular chess pieces × 5, Instruction manual × 1, AAA battery × 3

Manufacturer: Ningbo mideer Creative Technology Co., Ltd.
Manufacturer's Address: Xicheng Village, Haishu District, Ningbo, Zhejiang Province
Factory: Guangdong Kaige Technology Co., Ltd.
Address: Xiu Shui Road, Lai Mei Industrial Zone, Fengxiang Street, Chenghai District, Shantou, Guangdong Province

BUTTON INSTRUCTIONS

- ON/OFF** Long press for 2 seconds to power on/off;
Short press to return to the current level in teaching/challenge mode.
- L** Short press to activate the teaching mode for the current level;
Long press to reset and go back to the first level.
- C** Short press to toggle mute mode
Long press to adjust the volume or silence it. The next time it powers on, the volume will be consistent with the last shutdown.
- ◀ ▶** Short press to navigate to the previous/next level or view the previous/next step in teaching mode;
Long press to jump to the previous/next ten levels or view the previous/next steps quickly in teaching mode.

The device automatically enters standby mode after 5 minutes of inactivity with a decrease in screen brightness. Press any key to wake it up. It shuts down automatically after 20 minutes of inactivity.

MAINTENANCE AND CARE

This product contains electronic components and should not be submerged in water or placed in a damp environment. Use a soft, clean cloth for cleaning to wipe away surface marks.

WARNING

- Contains small parts, not suitable for children under three years old.
- Improper disposal of this toy may have environmental consequences.
- The packaging contains essential information and must be retained.
- Maintenance and care: Avoid prolonged exposure to sunlight and keep the toy dry inside and out.

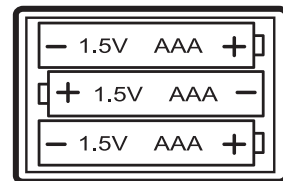
BATTERY PRECAUTIONS

- Follow the correct method for inserting and removing batteries.
- The toy uses 3 pieces of 1.5V "AAA" non-rechargeable batteries.
- Non-rechargeable batteries should not be recharged.
- Different battery models or old and new batteries should not be mixed.
- Use only the recommended or identical batteries.
- Rechargeable batteries should only be charged under adult supervision.
- Remove rechargeable batteries from the toy before charging.
- Batteries should be inserted with the correct polarity.
- Exhausted batteries should be removed from the toy.
- The battery terminals must not be short-circuited.
- Do not connect to more power sources than recommended.

Battery Installation Instructions:

Open the battery cover and insert/remove the batteries with the correct polarity.

Use 3 pieces of 1.5V "AAA" non-rechargeable batteries.



TROUBLESHOOTING

Issue	Possible Causes	Solutions
Unable to power on	Batteries not installed or installed incorrectly	Install the batteries correctly
	Batteries are depleted	Replace with new batteries
No sound	Mute setting activated	Long press the C key to disable mute
Screen darkened	No activity for more than 5 minutes	Press any key to wake up the device if inactive for more than 5 minutes

WARRANTY CARD

Warranty Information

The Smart Advanced Klotski Cube Maze strictly adheres to the "Consumer Rights Protection Law" and the "Product Quality Law" of the People's Republic of China. The after-sales service follows the "Three Guarantees" policy, and the service details are as follows:
1. Within 15 days from the day you receive the product, if the product experiences performance failures as listed in the "Product Performance Failure Table" and confirmed by our after-sales service center through testing, you can enjoy a free replacement service.
2. From the 16th to the 90th day from the day you receive the product, if the product experiences performance failures as listed in the "Product Performance Failure Table" and confirmed by our after-sales service center through testing, you can enjoy free repair services.

Warranty Coverage:

During the warranty period, if the following issues occur during the use of this product, we will provide free warranty service:
1. Quality issues inherent in the product, such as appearance damage found upon opening the box.
2. Quality issues with the product itself during normal use.
3. Consumables and accessories are not covered by the warranty.

Warranty Period:

The warranty period for this product is one year, calculated from the date of purchase (if the purchase invoice is lost, the warranty period is calculated from the date of manufacture).

Service Beyond the Warranty Coverage:

During the warranty period, if the product fails due to the following reasons, we will provide repair services, but material fees will be charged:
1. All artificial damages occurring due to not following the user manual.
2. User attempts to repair or modify the product without authorization.
Service Beyond the Warranty Period:
If the product fails after the warranty period, we will provide repair services, but repair fees and material fees will be charged.

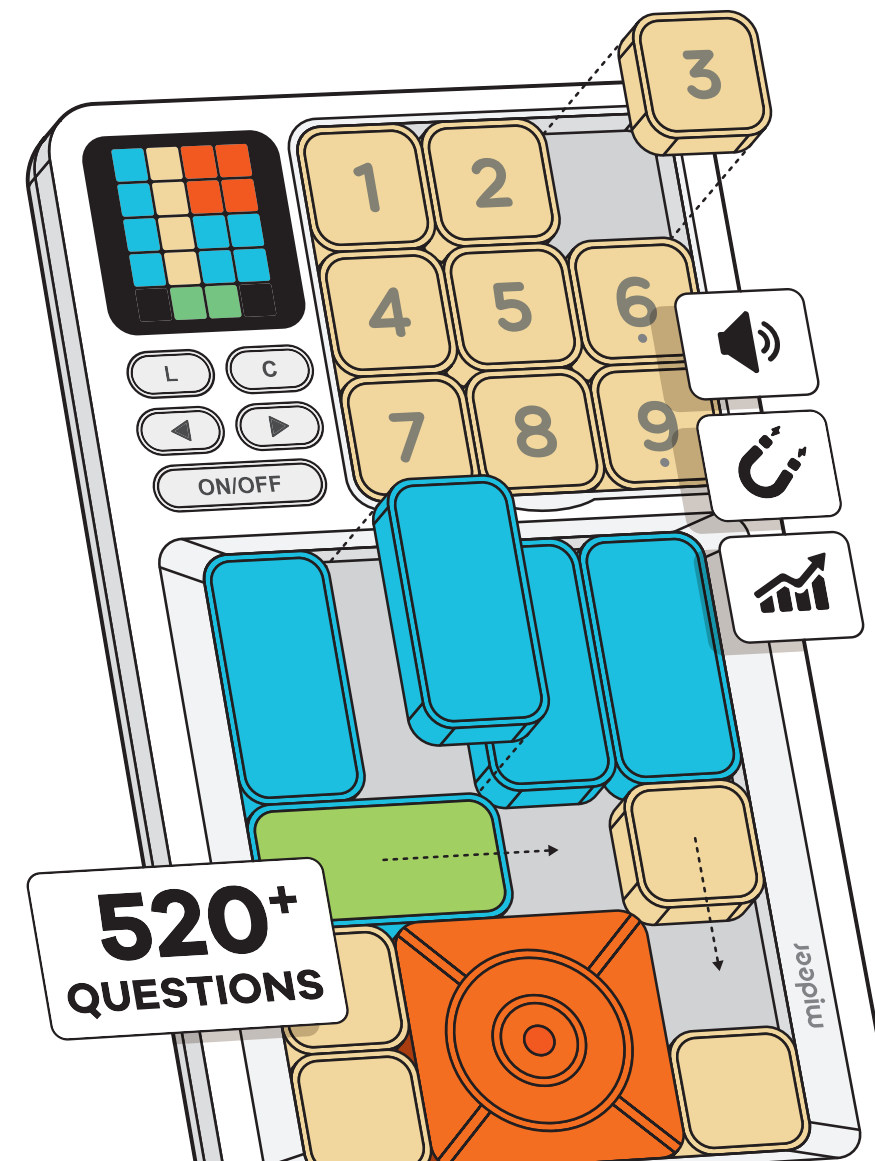
Name		Purchase Date	
Contact		Repair Record	
Address			

Special Announcement

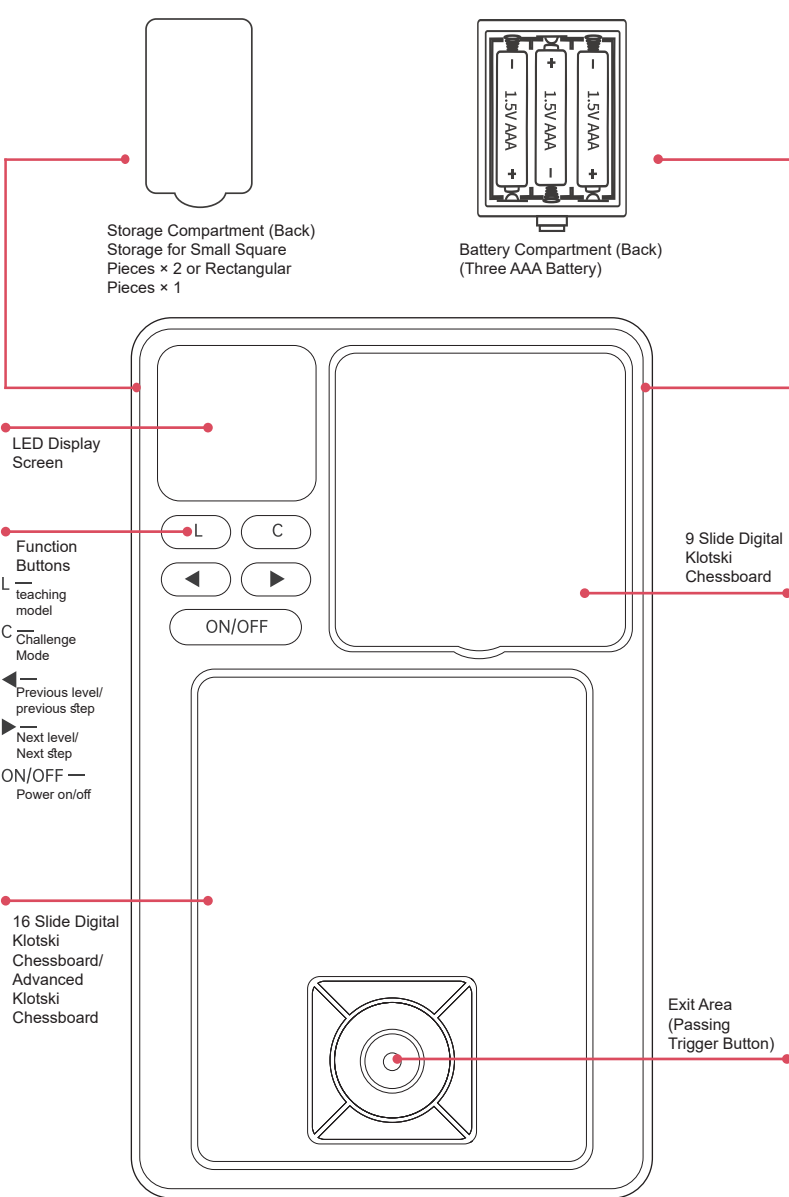
If this product experiences any malfunctions, please contact us for customer service. If issues cannot be resolved at service centers, feel free to contact our company's customer service center directly.
All content in this document has been carefully verified. In case of any printing errors, omissions, or misunderstandings in the content, our company reserves the right to interpret.
If there are technical improvements to the product, they will be included in the new version of the manual without further notice. Any changes to the appearance or color of the product will be based on the actual product.

mideer

CUBE
MAZE



PRODUCT INTRODUCTION



MODE INSTRUCTIONS

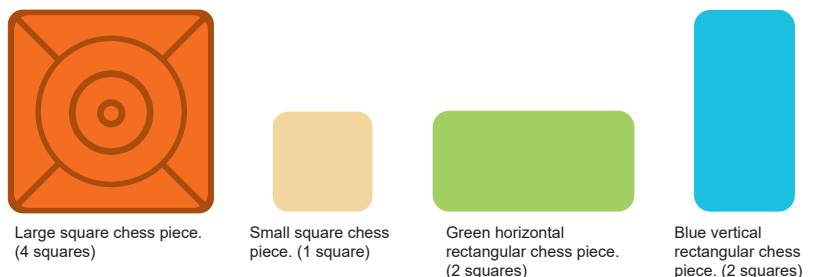
Mode One (Advanced Klotski)

The Intelligent Advanced Klotski is a sliding puzzle chessboard game with a linked decisive button. It features 520 levels of puzzles, graded from easy to difficult, supporting problem-solving tutorial mode and countdown challenge mode. Step by step, it guides you through problem-solving, exercising your brain's thinking abilities.

How to Play

Game Objective Move the large square chess piece from different level starting positions to the exit area marked by the large square chess piece at the bottom of the chessboard.

Chessboard Consists of a 4x5 rectangle, totaling 20 squares, with a linked decisive button at the exit.
Chess Pieces Large square chess piece occupies 4 squares. Small square chess piece occupies 1 square. Rectangular chess piece occupies 2 squares.



Starting Position The initial layout of chess pieces, leaving 2 empty squares for piece movement in different levels.

Movement Rules Slide chess pieces; lifting them is not allowed. Do not change the initial orientation of rectangular chess pieces (horizontal remains horizontal, vertical remains vertical).

Problem-solving Techniques
1. Small square chess pieces move in pairs simultaneously.
2. When moving large square chess pieces, have small square chess pieces clear the way in front and follow behind.
3. For horizontally placed rectangular chess pieces, clear the path with two small square chess pieces before moving.

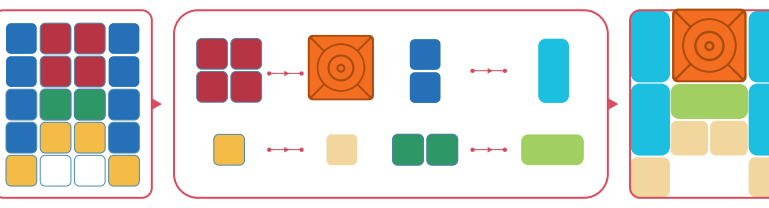
Quick Start Guide

1 This product comes with 520 levels, categorized into seven difficulty levels gradually increasing in complexity.
Upon startup, it automatically enters the last played level. Short press ◀ or ▶ to switch to the previous or next level; long press or key to jump to the ten levels before or after the current level.

Beginner	Primary	Intermediate	Advanced	Elite	Master	Expert
1-16	17-39	40-69	70-109	110-209	210-369	370-520

2 Set Up the Initial Position

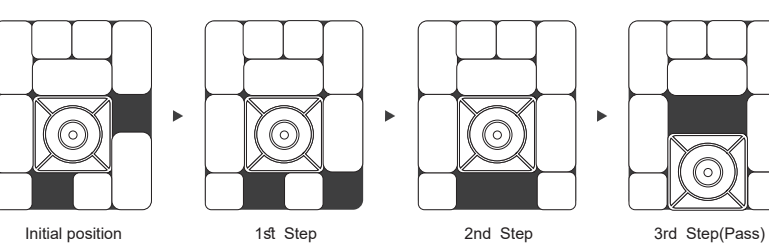
After selecting a level, match the LED screen color to place the corresponding colored and shaped chess pieces on the chessboard.
The screen will flash in a loop to indicate the placement of different chess pieces.
After arranging, press the ON/OFF button once to stop the flashing.



•Red Light: Large chess piece •Blue Light: Place the rectangular piece
•Yellow Light: Small chess piece •Green Light: Place the rectangular piece horizontally

3 Start Solving Puzzles

After setting up the initial position, you can start solving puzzles.
When the large chess piece reaches the exit area marked by the large square chess piece at the bottom of the chessboard, press the center button of the large square chess piece, and the screen will automatically play the clearance animation and sound effects.



Tutorial Mode

After setting up the initial position, short press the L key to enter the tutorial mode for the current level.
Short press ◀ or ▶ to view the previous or next step.
Long press ◀ or ▶ to view the previous step fast forward or the next step.
During the tutorial, short press the ON/OFF button to return to the current level.

Countdown Challenge Mode

After setting up the initial position, short press the C key to enter the countdown challenge mode for the current level.
The countdown starts after 3-2-1. Please complete the puzzle before all lights on the screen go out. Upon successful completion, the system will display the time taken to solve the puzzle on the screen. Otherwise, the challenge fails, and the screen displays an X.
During the challenge, short press the ON/OFF button to return to the current level.

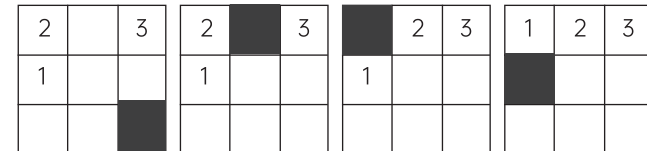
Mode 2 (3x3 Numbered Slider Puzzle)

The 3x3 Numbered Slider Puzzle is a simplified version of the Klotski. It consists of 8 numbers and one empty space, making it suitable for beginners or those getting introduced to numbered slider puzzles. The objective is to slide and shuffle the numbers, and then quickly slide each tile to restore the original numerical order. The solution for "3x3 Numbered Slider Puzzle" typically involves a step-down solution and a row-by-row solution. The step-down solution adjusts numbers like 1, 2, 3, and 4, 7 first, and then rearranges the remaining 2x2 positions. The row-by-row solution adjusts each row to restore the puzzle, making it easier for beginners to understand and observe. It's important to note that if there are only two numbers left to exchange at the end, the puzzle is unsolvable.

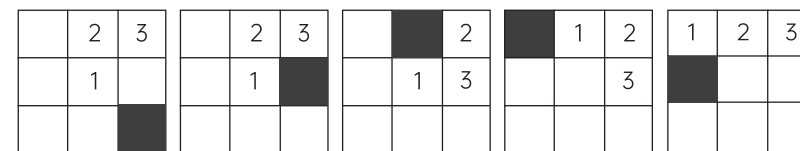
Step-Down Solution

1 Step 1: Restore 1, 2, and 3

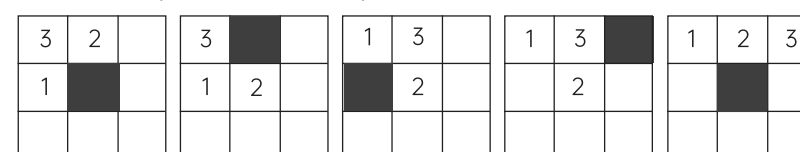
Case 1: 3 is already in place, and 2 is in the position of 1.



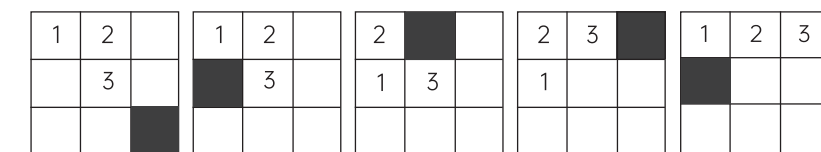
Case 2: 2 and 3 are already in place.



Case 3: 2 is in place, and 3 is in the position of 1.

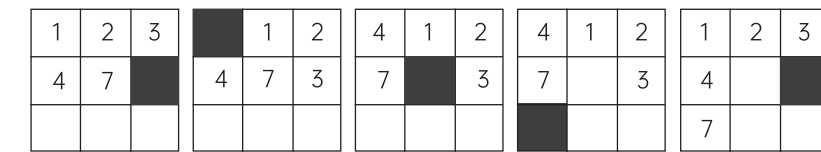


Case 4: 1 and 2 are already in place.

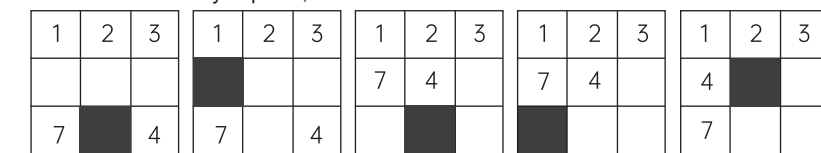


2 Step 2: Restore 4 and 7

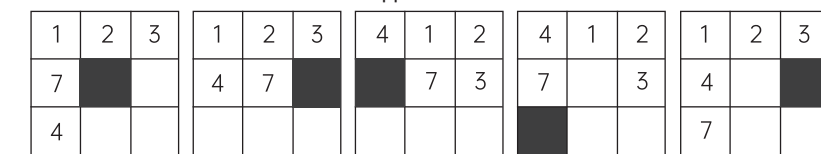
Case 1: 4 is already in place, and 7 is outside.



Case 2: 7 is already in place, and 4 is outside.



Case 3: Positions of 4 and 7 are swapped.



3 Step 3: Restore 5, 6, and 8

This step has no difficulty. It involves simple sliding to adjust the order. If there are still two positions that need to be exchanged, it means there is no solution. This could happen due to a specific unsolvable situation. The solution is to extract and rearrange.

Case 4: 1 and 2 are already in place.



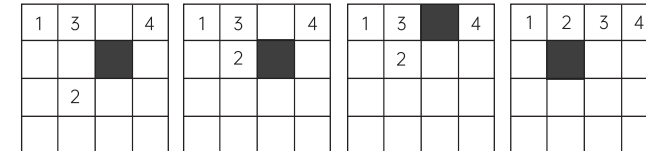
Mode 3 (4x4 Numbered Slider Puzzle)

The 4x4 Numbered Slider Puzzle, also known as 15-puzzle or 15-slider, is a sliding puzzle game. The plane has a 4x4 grid with empty spaces, and it consists of 15 numbered tiles and one empty space. The goal is to slide the numbered tiles to scramble them and then restore the original numerical order through quick sliding moves. The solution for "4x4 Numbered Slider Puzzle" typically involves a step-down solution and a row-by-row solution. The step-down solution starts by adjusting 1, 2, 3, 4, 5, 9, 13. After that adjust the remaining 3x3 positions. Further adjust 6, 7, 8, 10, and 14. Finally, adjust 11, 12, and 15. The row-wise method is adjusting each row to restore the numbers. This method is easier for beginners as it involves understanding and observing row-wise movements.

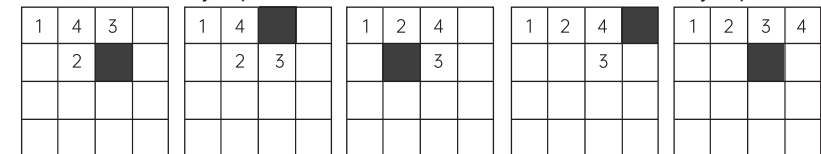
Step-Down Solution

1 Step 1: Restore 1, 2, 3, and 4

Case 1: 1 is already in place, 3 and 4 are in the first row, and 2 is elsewhere.



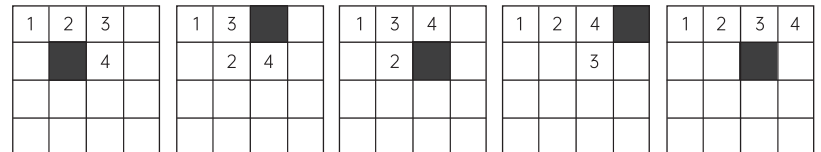
Case 2: 1 is already in place, 3 and 4 are in the first row, and 3 is already in place.



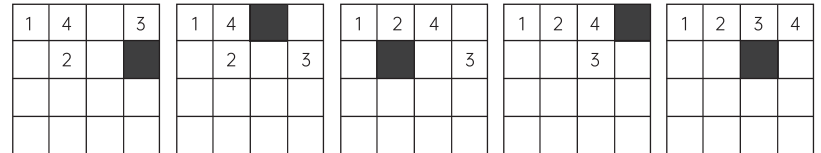
Case 3: 1 is already in place, 2 and 3 are in the first row, but in the wrong order.



Case 4: 1 is already in place, 2 and 3 are in the first row, and in the correct order.



Case 5: 1 is already in place, 3 and 4 are in the first row, and not yet in place.

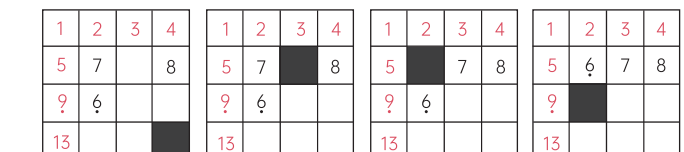


2 Step 2: Restore 5, 9, and 13

The key to this step is to remember these three numbers, as they are discontinuous. The situations encountered and the solutions are the same as in the previous step, just in a different direction.

3 Step 3: Restore 6, 7, and 8

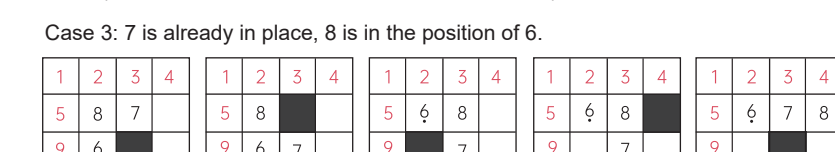
Case 1: 6 is already in place, 7 is in the position of 6.



Case 2: 7 and 8 are already in place.



Case 3: 7 is already in place, 8 is in the position of 6.



Case 4: 6 and 7 are already in place.

