



Learn a new puzzle

Tower View

Each row and column has buildings 1, 2, 3, 4, 5, 6. An edge number says how many you can see. Some edges have no number.

Trick: Count the ways**1**

	3	1		2	6	2	
2		6			1		2
2			6		2		2
1	6				3		3
4					4	6	
3				6	5		3
					6		2
	2	3	4	2	1	3	

Look at the edge numbers of row 1. Write the orders of 1 to 6 that fit.

2

	3	1		2	6	2	
2		6			1		2
2			6		2		2
1	6				3		3
4					4	6	
3				6	5		3
					6		2
	2	3	4	2	1	3	

Only two fit: 263415 or 362415 (left to right).

3

	3	1		2	6	2	
2		6		4	1		2
2			6		2		2
1	6				3		3
4					4	6	
3				6	5		3
					6		2
	2	3	4	2	1	3	

Every order puts 4 in this square, so write 4.

Try it

	3	3	1	2	6	2	
							3
4							1
2							4
1							2
4							
3							2
	2		5	2	1	4	

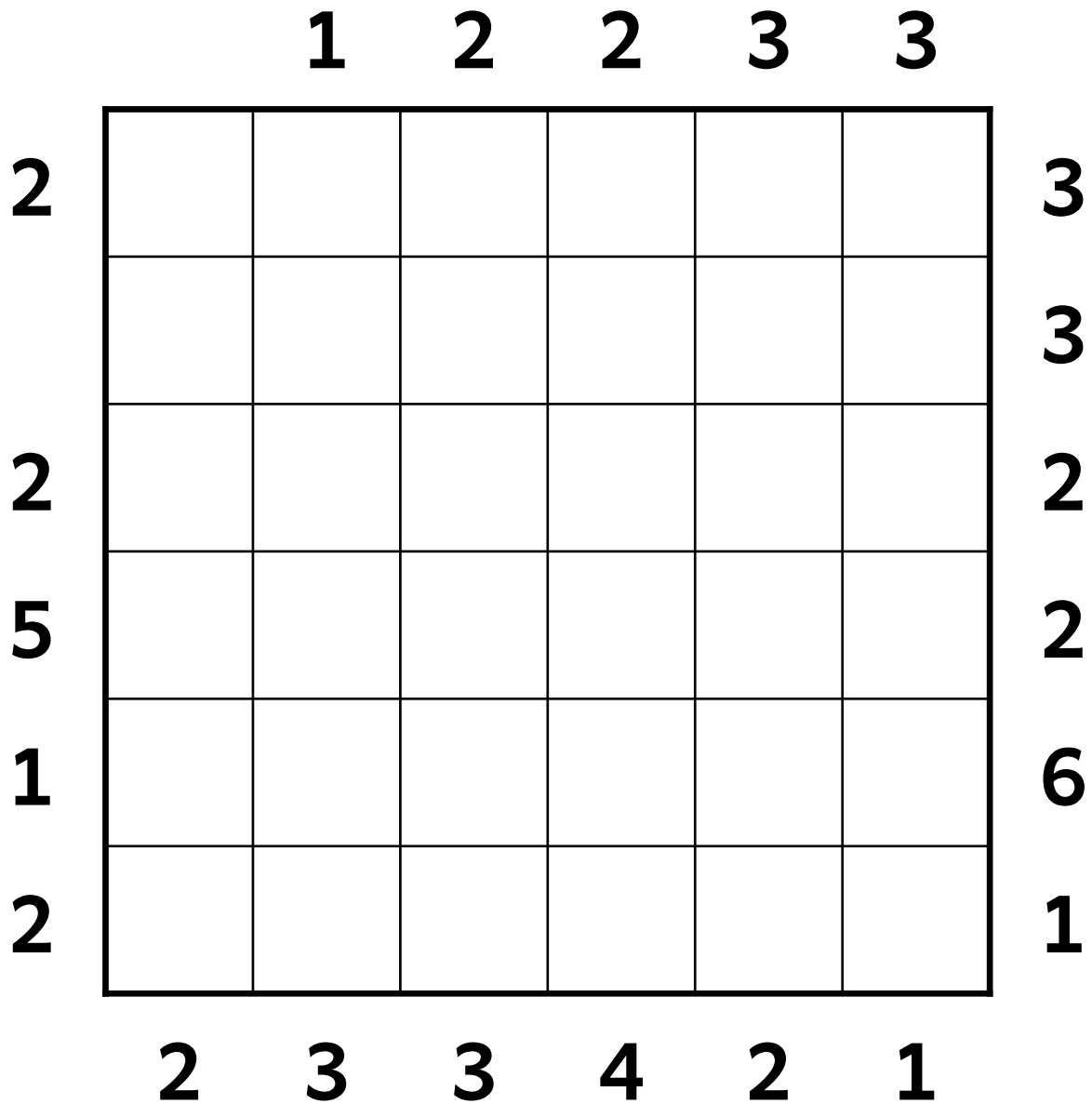
The answer is with the other answers.

Talk about it: Ask: Which orders of 1 to 6 could this row be?



1 Tower View

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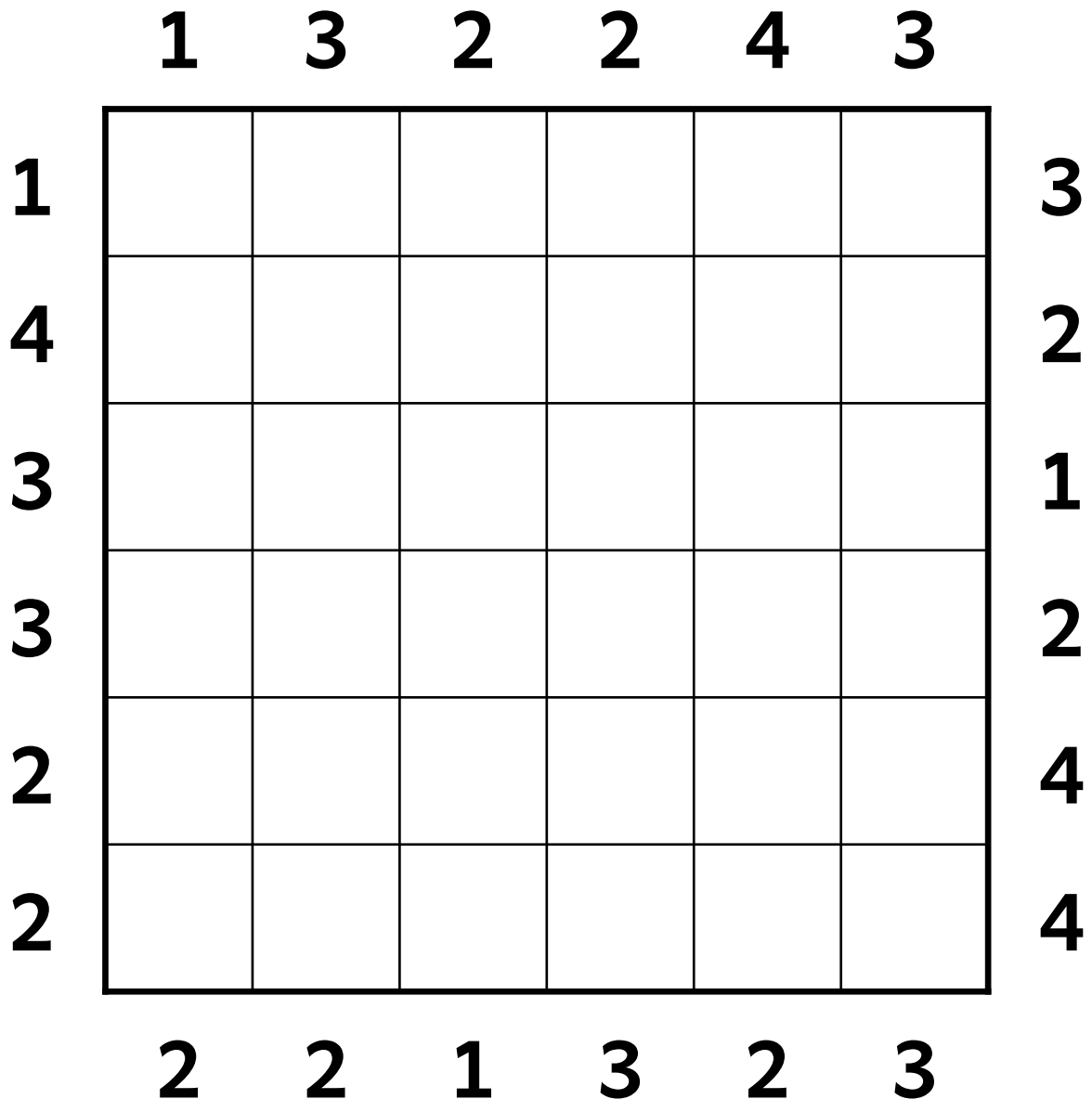




2

Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see.

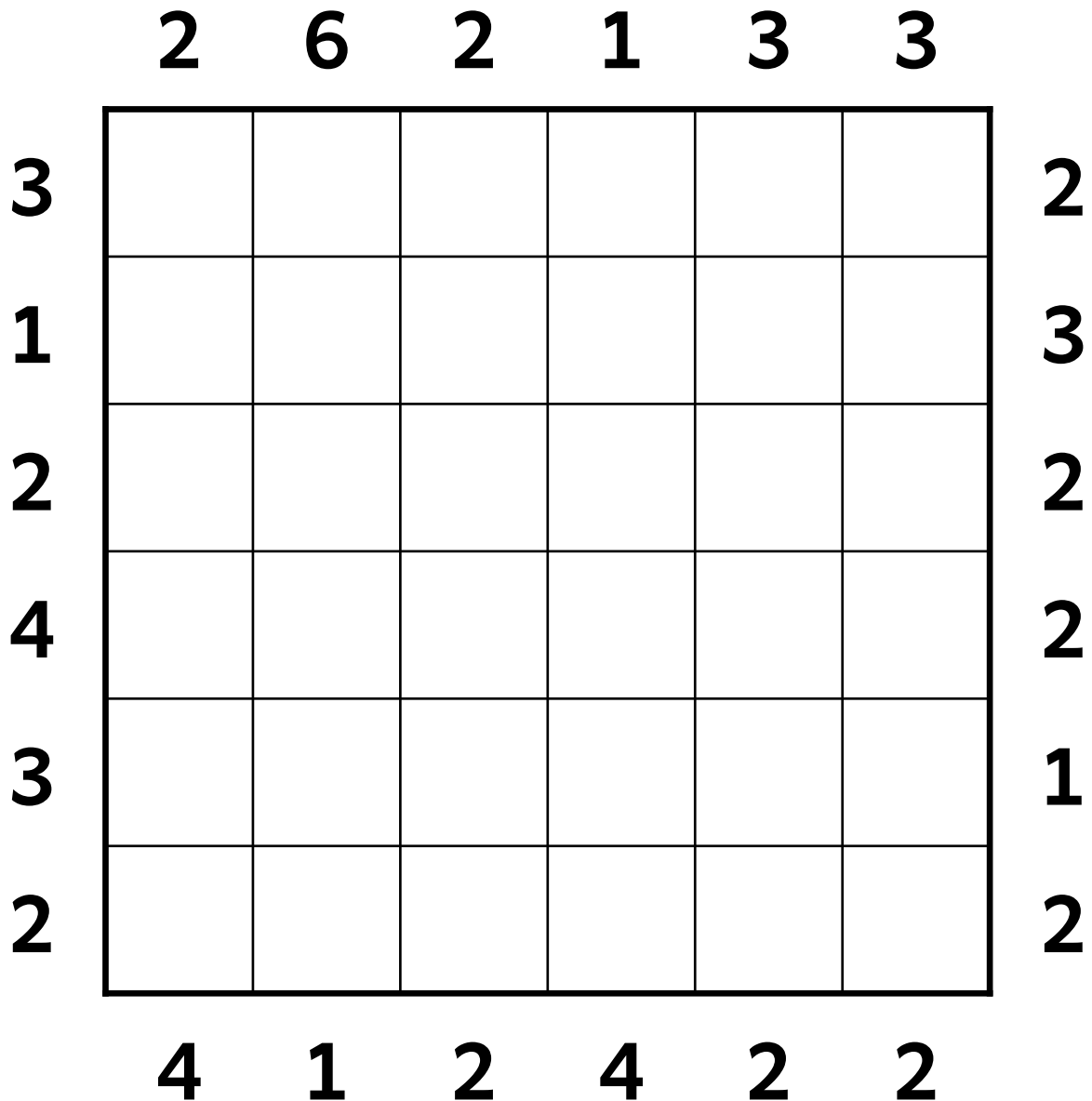




3

Tower View

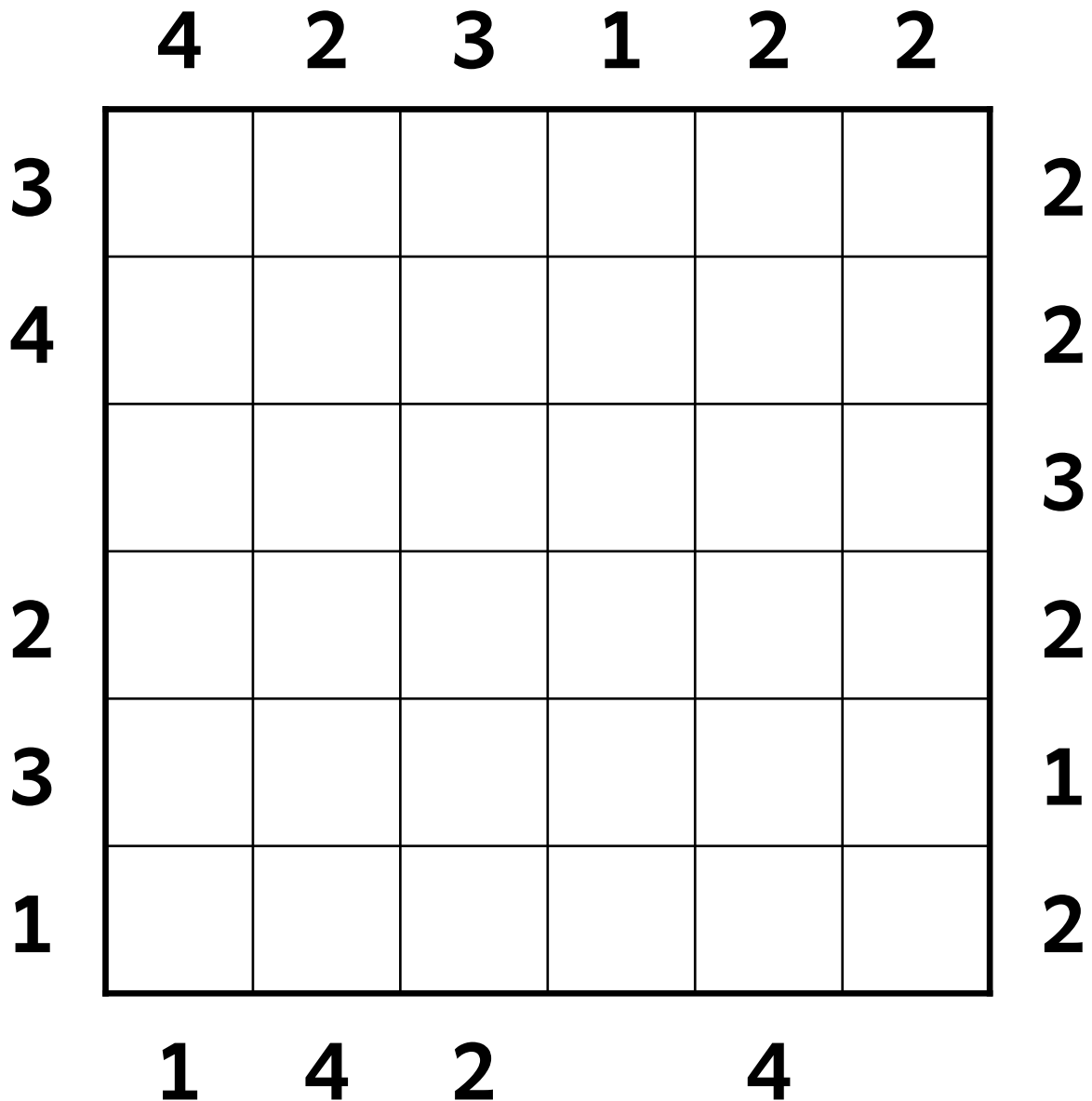
Each row and column has buildings 1 to 6. An edge number says how many you can see.





4 Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.

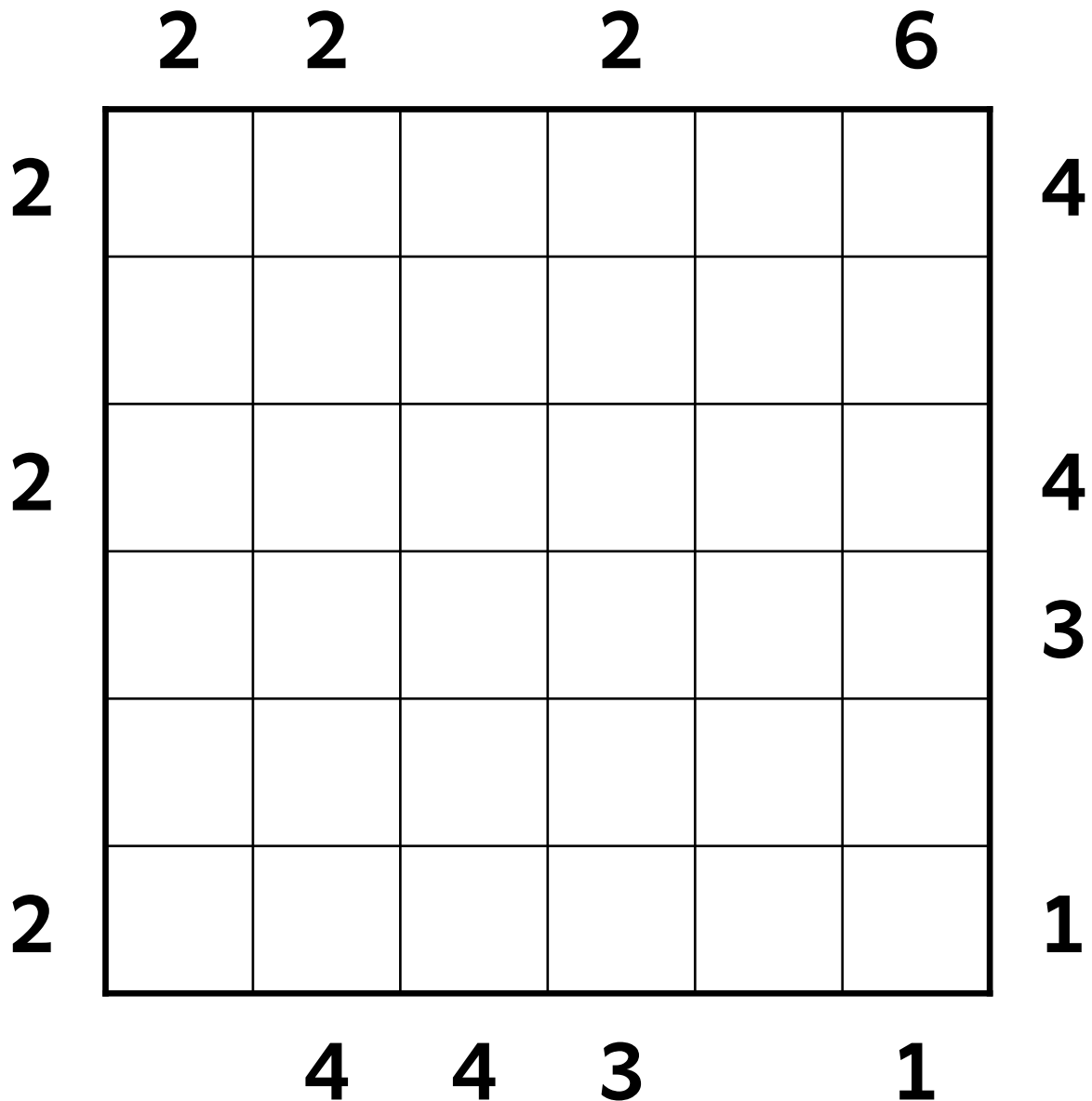




5

Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.

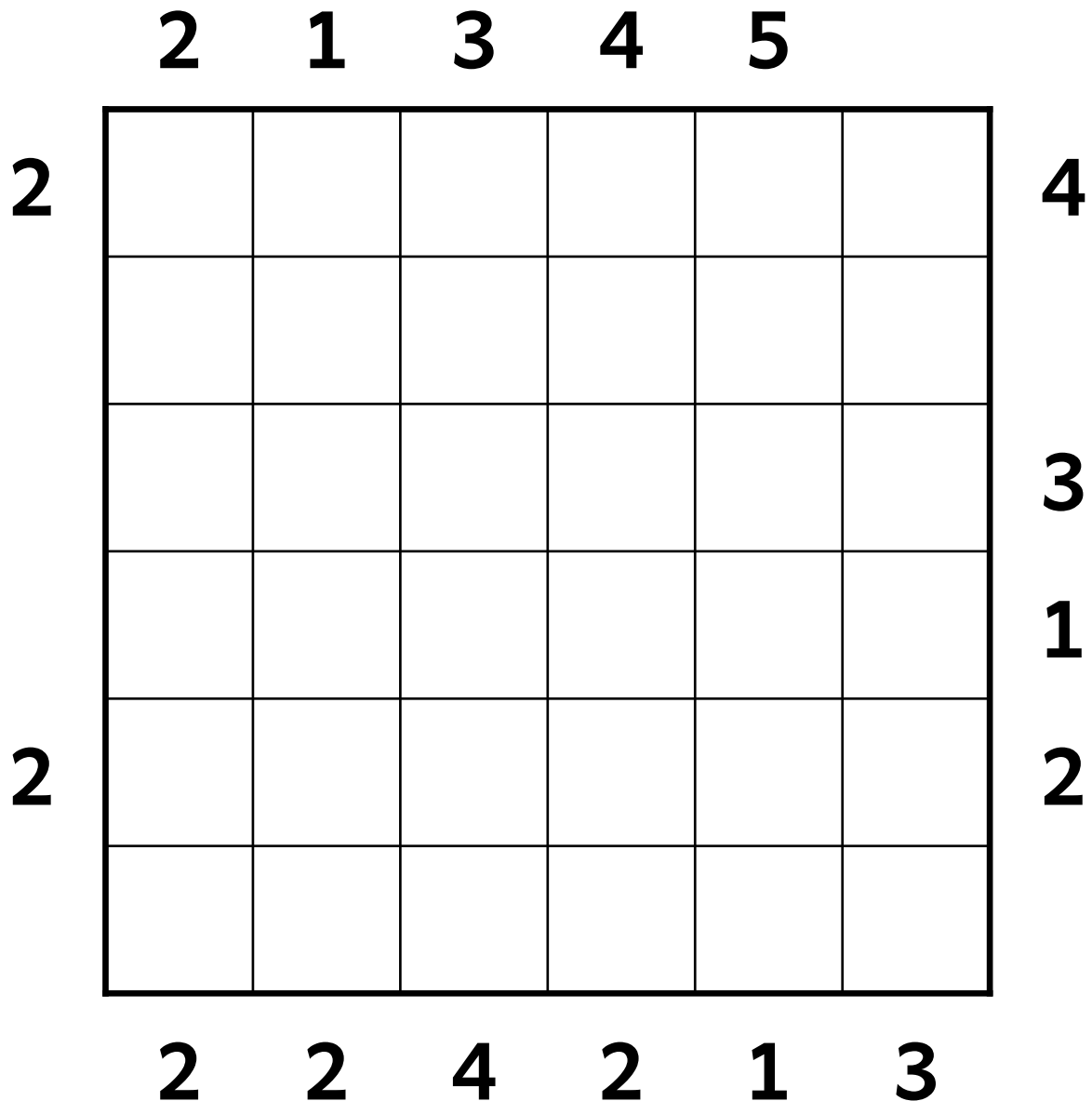




6

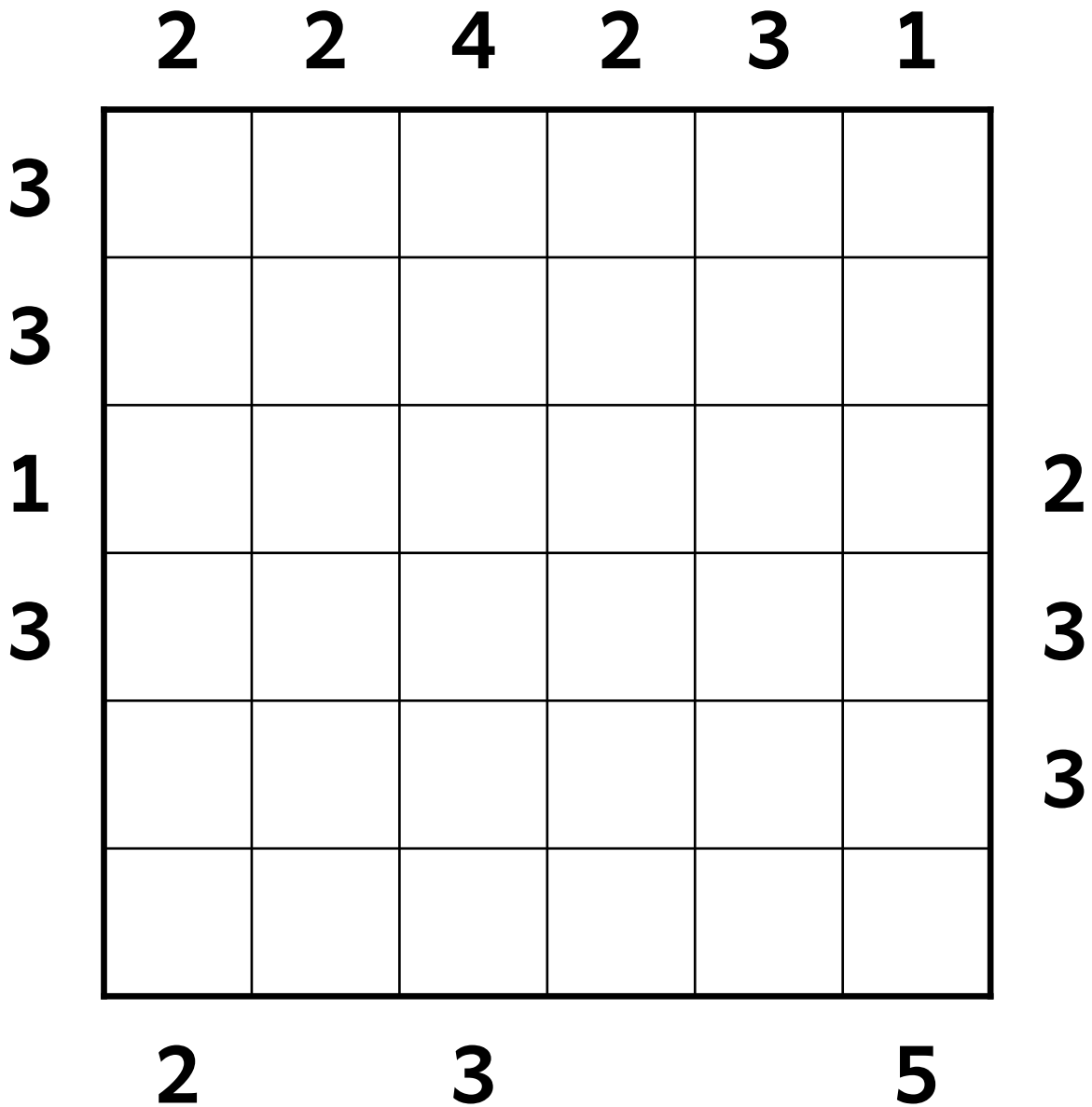
Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.





7 Tower View Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.

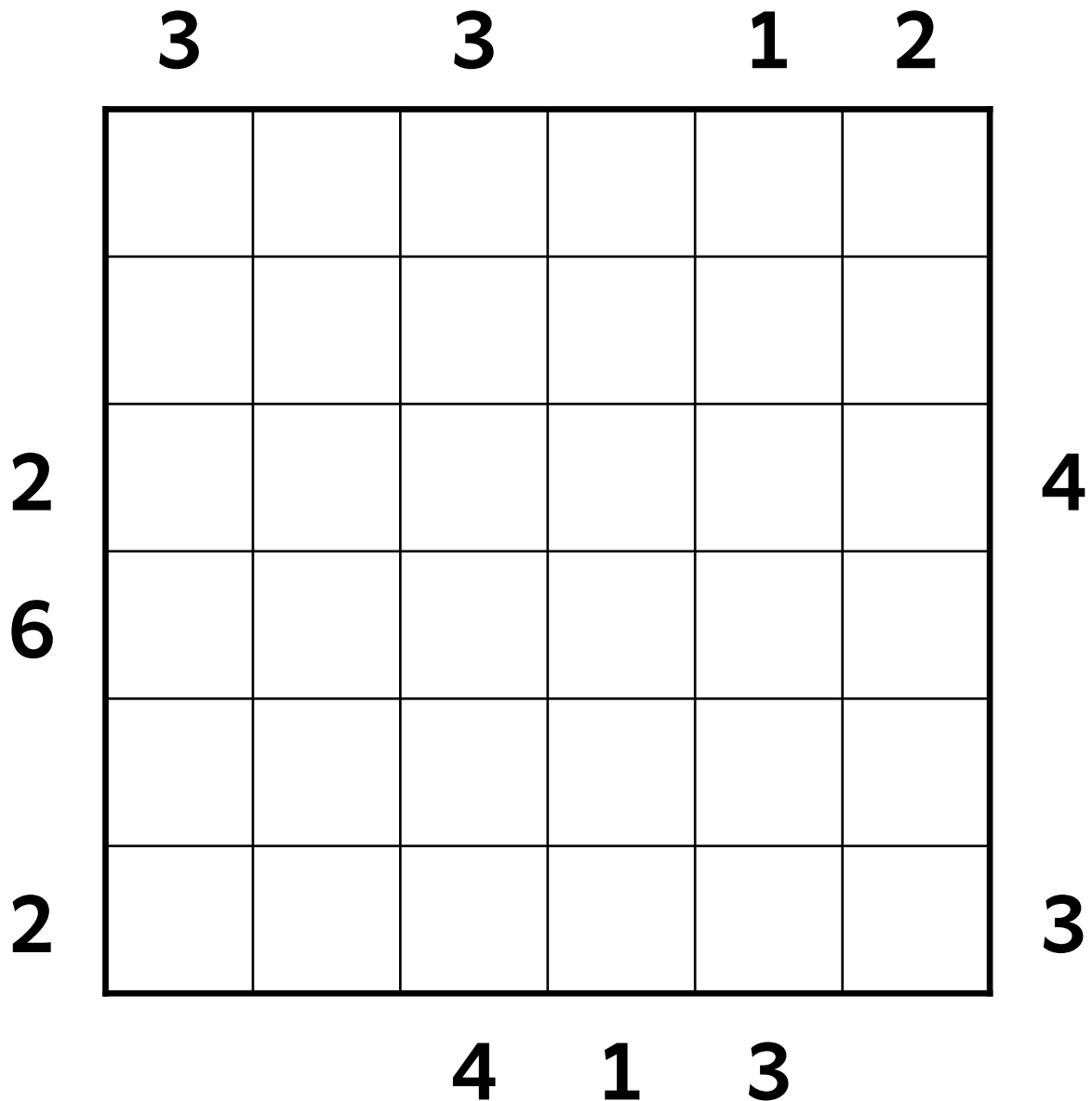




8

Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.

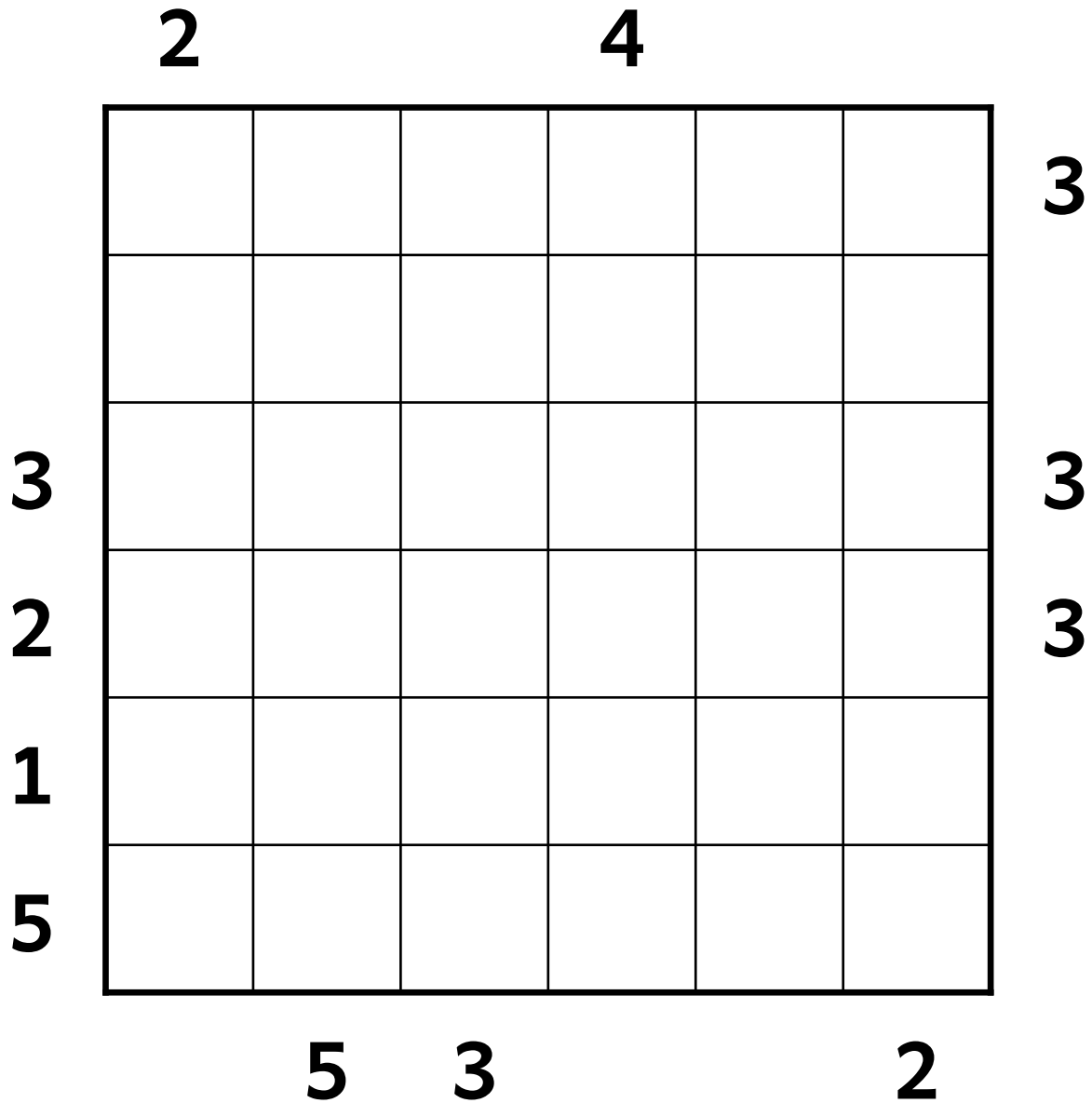




9

Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.

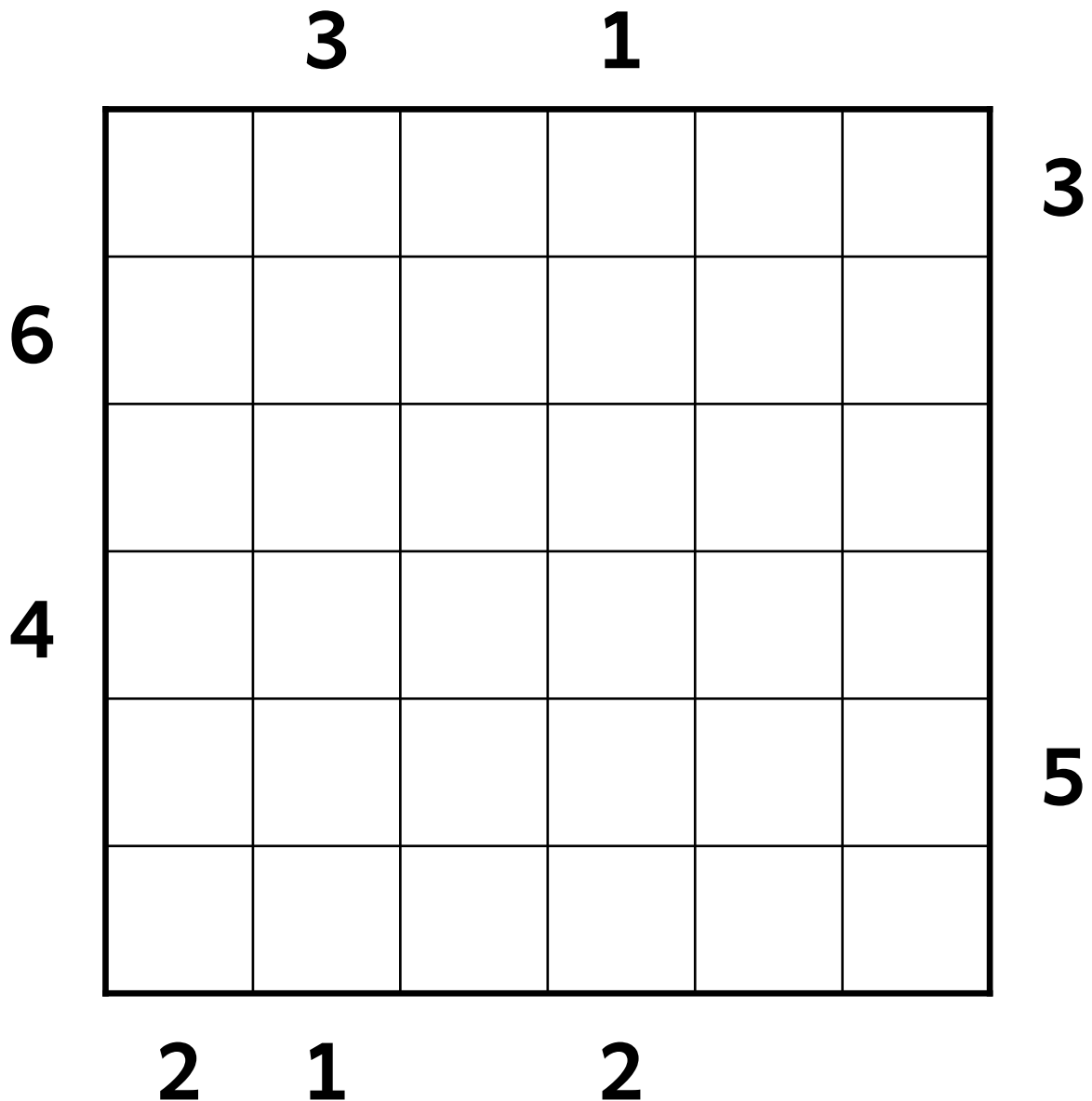




10

Tower View

Each row and column has buildings 1 to 6. An edge number says how many you can see. Some edges have no number.





Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn • Tower View

	3	3	1	2	6	2	
	4	3	6	5	1	2	3
4	3	4	5	1	2	6	1
2	5	6	4	2	3	1	4
1	6	1	2	3	4	5	2
4	1	2	3	6	5	4	
3	2	5	1	4	6	3	2
	2		5	2	1	4	

#1

		1	2	2	3	3	
2	4	6	5	2	1	3	3
	3	4	1	6	5	2	3
2	2	1	6	4	3	5	2
5	1	2	3	5	6	4	2
1	6	5	4	3	2	1	6
2	5	3	2	1	4	6	1
	2	3	3	4	2	1	

#2

		1	3	2	2	4	3	
1	6	4	5	2	1	3	3	
4	1	2	3	6	4	5	2	
3	4	3	2	1	5	6	1	
3	2	5	1	3	6	4	2	
2	3	6	4	5	2	1	4	
2	5	1	6	4	3	2	4	
	2	2	1	3	2	3		

Only two orders fit the edge numbers of row 4 and what you know: 123465 or 123564 (left to right). None of them puts 2, 3 or 4 in row 4, column 1.

Only four orders fit the edge numbers of row 2 and what you know: 123645, 124635, 134625 or 234615 (left to right). None of them puts 3 or 4 in row 2, column 1.

#3

	2	6	2	1	3	3	
3	4	1	5	6	2	3	2
1	6	2	4	3	5	1	3
2	5	3	6	2	1	4	2
4	3	4	1	5	6	2	2
3	1	5	2	4	3	6	1
2	2	6	3	1	4	5	2
	4	1	2	4	2	2	

#4

	4	2	3	1	2	2	
3	2	5	3	6	1	4	2
4	1	3	5	4	6	2	2
	4	6	2	3	5	1	3
2	5	4	6	1	2	3	2
3	3	2	1	5	4	6	1
1	6	1	4	2	3	5	2
	1	4	2		4		

#5

	2	2		2		6	
2	4	3	6	5	2	1	4
	3	1	4	6	5	2	
2	2	6	5	4	1	3	4
	6	5	2	1	3	4	3
	1	4	3	2	6	5	
2	5	2	1	3	4	6	1
	4	4	3		1		

Only four orders fit the edge numbers of column 6 and what you know: 214365, 215364, 314265 or 315264 (top to bottom). None of them puts 1 or 5 in row 4, column 6.

Only two orders fit the edge numbers of row 4 and what you know: 546123 or 546213 (left to right). None of them puts 4 or 5 in row 4, column 5.

Only three orders fit the edge numbers of row 1 and what you know: 326541, 426531 or 436521 (left to right). None of them puts 2 in row 1, column 1.

#6

	2	1	3	4	5		
2	5	6	4	3	1	2	4
	6	3	5	4	2	1	
	1	2	6	5	3	4	3
	2	4	3	1	5	6	1
2	3	1	2	6	4	5	2
	4	5	1	2	6	3	
	2	2	4	2	1	3	

#7

	2	2	4	2	3	1	
3	3	5	2	1	4	6	
3	2	4	3	6	5	1	
1	6	1	4	3	2	5	2
3	1	2	6	5	3	4	3
	4	6	5	2	1	3	3
	5	3	1	4	6	2	
	2		3		5		

#8

	3		3		1	2	
	3	1	4	2	6	5	
	2	6	5	1	4	3	
2	4	3	6	5	2	1	4
6	1	2	3	4	5	6	
	6	5	2	3	1	4	
2	5	4	1	6	3	2	3
	4	1	3				

Only two orders fit the edge numbers of column 1 and what you know: 561234 or 562134 (top to bottom). None of them puts 5 in row 5, column 1.

Only four orders fit the edge numbers of column 6 and what you know: 615432, 625431, 635421 or 645321 (top to bottom). None of them puts 1 or 2 in row 4, column 6.

Only one order fits the edge numbers of column 3 and what you know: 456321 (top to bottom). None of them puts 1, 2 or 5 in row 1, column 3.



Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9

	2		4				
	5	6	4	1	2	3	3
	2	5	1	3	4	6	
3	3	4	6	5	1	2	3
2	4	3	2	6	5	1	3
1	6	1	5	2	3	4	
5	1	2	3	4	6	5	
	5	3		2			

Only two orders fit the 5 on the left of row 6 and what you know: 123465 or 123564 (left to right). None of them puts 2, 3, 4 or 5 in row 6, column 1.

#10

		3		1			
	5	4	2	6	3	1	3
6	1	2	3	4	5	6	
	3	1	6	2	4	5	
4	2	3	5	1	6	4	
	6	5	4	3	1	2	5
	4	6	1	5	2	3	
	2	1		2			

Only four orders fit the 5 on the right of row 5 and what you know: 645321, 654132, 654231 or 654312 (left to right). None of them puts 3, 4 or 5 in row 5, column 6.