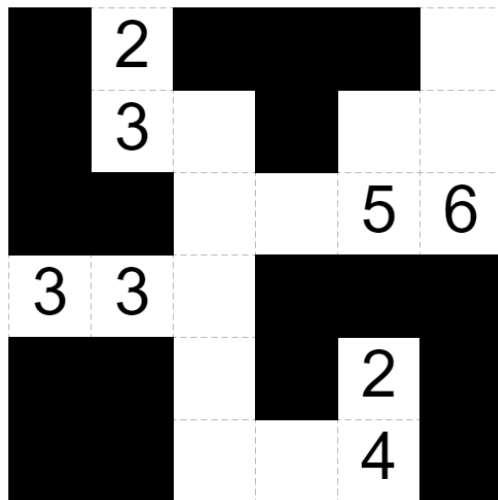


## Cave, LITS

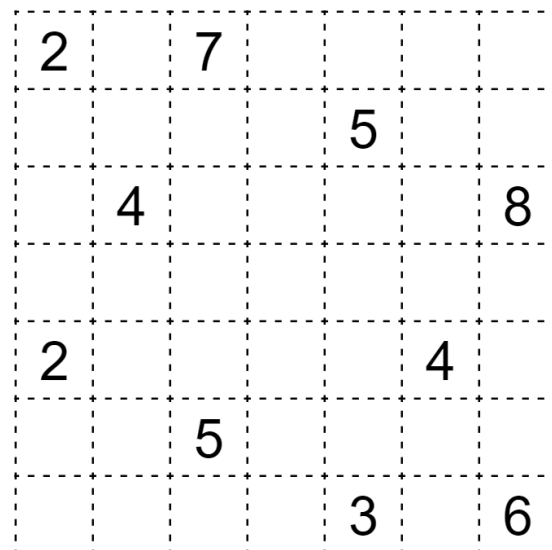
### Cave rules:

- Shade some cells on the grid.
- All shaded cells are horizontally/vertically connected through other shaded cells to the outside of the grid.
- Numbers are unshaded, and represent the total number of unshaded cells that can be seen in a straight line vertically or horizontally, including itself.
- All unshaded cells on the grid form a horizontally/vertically connected area.

### Cave Example:

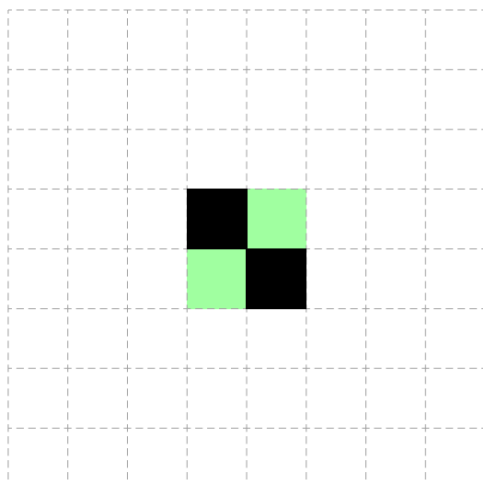


### Puzzle 1 (by Kaz)



### (important!) Crucial Cave Technique

A 2x2 pattern of shaded and unshaded cells like this can never occur! Why?



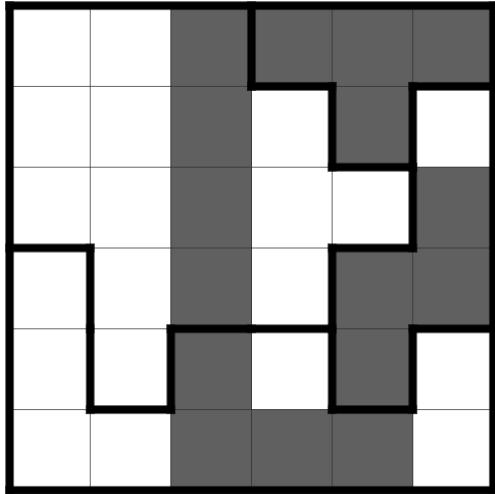
### Other tips:

- Pay attention to very large numbers! You can often unshade many cells from them.
  - Especially if there's small numbers sharing a row/column with it
- Sometimes you need to think globally about how the unshaded cells can connect
  - Or how the shaded cells can connect to the edge

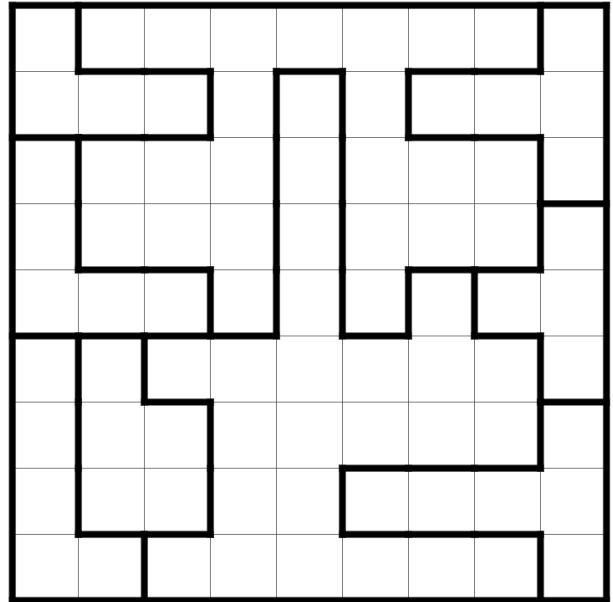
### LITS rules:

- Place one tetromino (group of 4 shaded cells) in each outlined region.
- There is no 2x2 of shaded cells.
- Two tetrominoes with the same shape cannot touch (that is, share an edge).
- All the tetrominoes form a horizontally/vertically connected area.

### LITS Example:



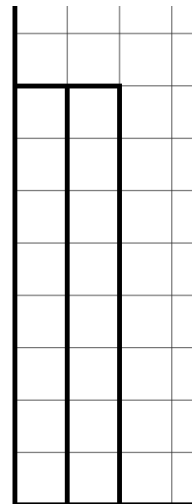
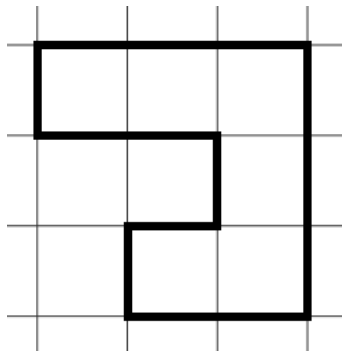
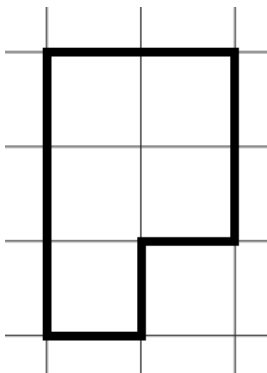
### Puzzle 2 (by Kaz)



### Lit LITS Tech

Commonalities are when all valid tetromino placements in a region have some shaded (or unshaded!) cells in common.

If two regions are forced to have the same tetromino, then those tetrominoes can't be adjacent. This has powerful implications!



Now it's your turn! Try to complete 2 puzzles.

Puzzles 3 through 10 are Caves. You might crave caves, or maybe caves aren't your fave. So I gave you options to save for later. \*waves\*

[Puzzle 3](#) (by Kaz) 🌶️

		2		2		5		
2								5
		2				3		
		5		6		3		
		3				2		
8								3
		4		7		5		

[Puzzle 4](#) (by USBe) 🌶️

7								5
		2						
		6				3	3	
				11				
		3	3				3	
							3	
7								7

[Puzzle 5](#) (by Kaz) 🌶️🌶️

		4	3					3
		4	3					
							5	4
							4	3
5	3							
7	5							
				4	4			
7				8	8			

[Puzzle 6](#) (by Kaz) 🌶️🌶️🌶️

15					12			
		3						
								6
	6							
							4	
11								
					5			
		4						6

Puzzle 7 (by TheGreatEscaper) 🌶️🌶️🌶️

		5			6		
				5		5	
	6			6			6
				5		5	
	6				6		
			6				
		4					3
	6			6		4	
14							

Puzzle 8 (by Serkan Yürekli) 🌶️🌶️🌶️

5	6	4					6
							4
		4					4
		4			6		
		5			5		
4					5		
4							
6					4	4	5

Puzzle 9 (by Freddie Hand) 🌶️🌶️🌶️🌶️

			3				3
3				3			
						3	
			3				
		3					3
3					3		
		3		3		3	
							3
				3		3	
3		3			3		

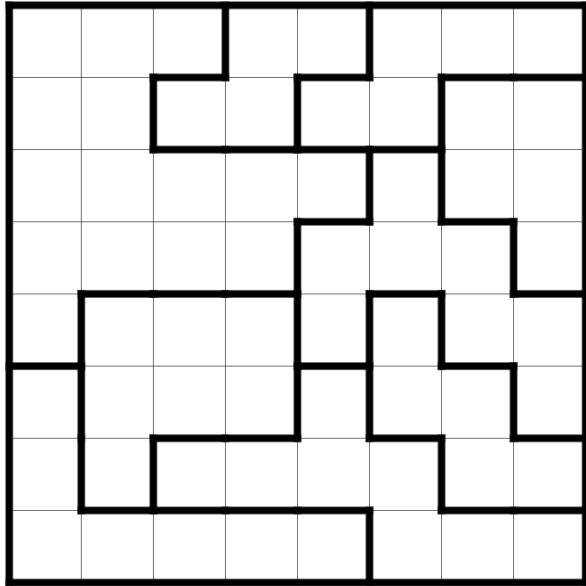
Puzzle 10 (by wormsofcan)



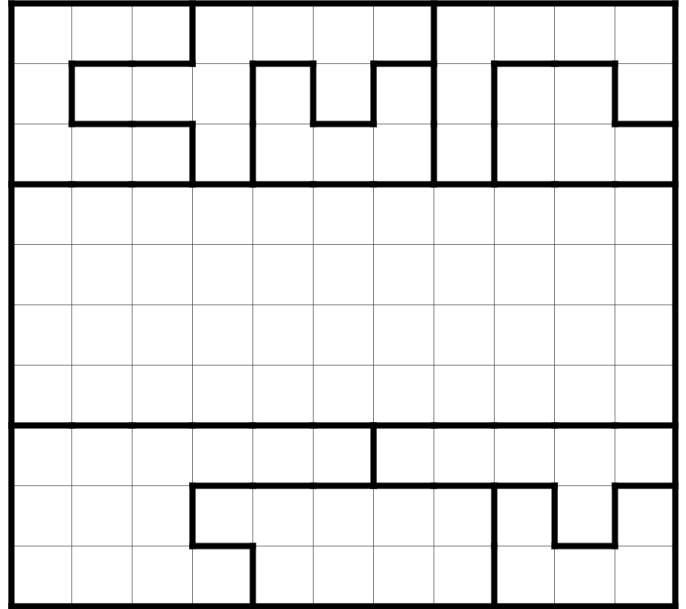
8								8
						6		
		3	5		3			
							4	
	3					3		
			3					4
	5							
				3		6	5	
		2						
8								8

TIL: Tis time: Puzzles 11 through 17 are LITS! It's still lit to sit down and do a list of LITS!

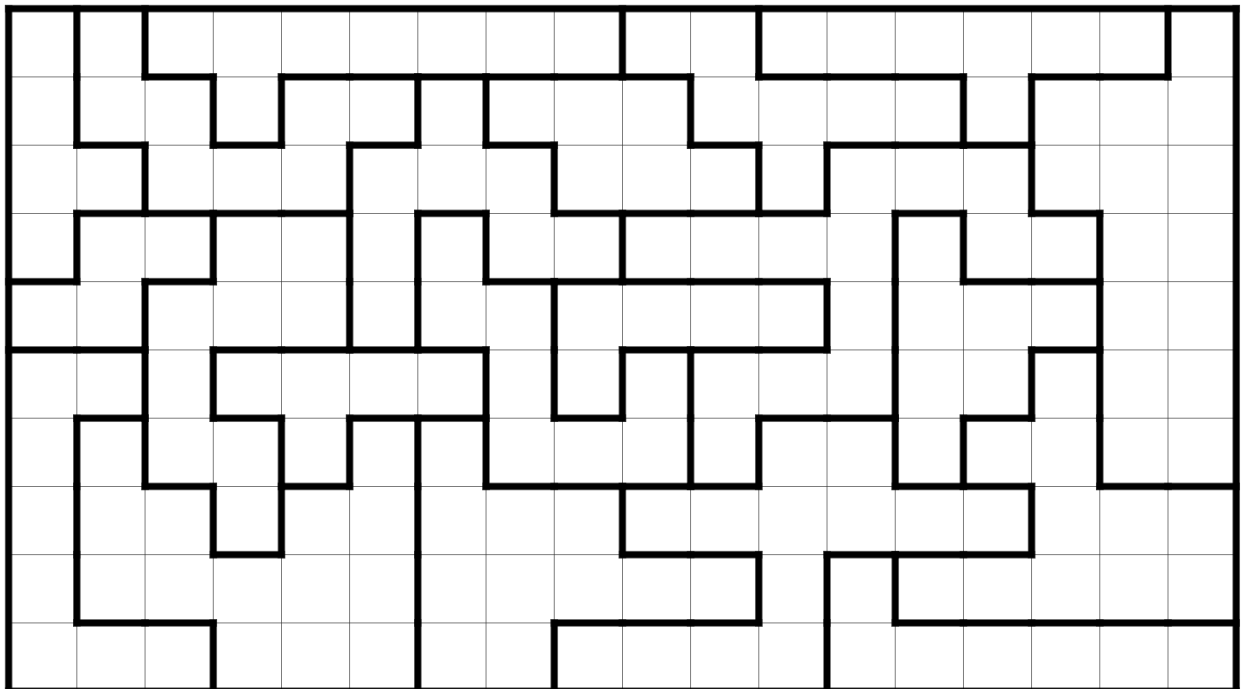
### Puzzle 11 (by Kaz) 🌶️



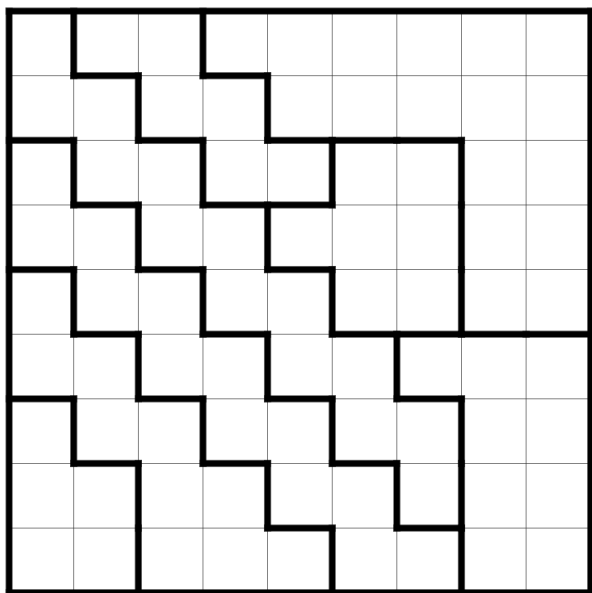
### Puzzle 12 (by greenturtle3141) 🌶️🌶️🌶️



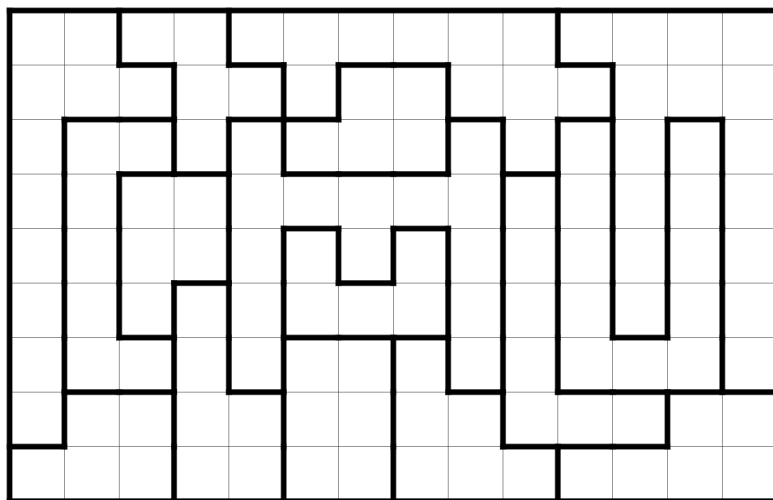
### Puzzle 13 (by Bachelor Seal) 🌶️🌶️



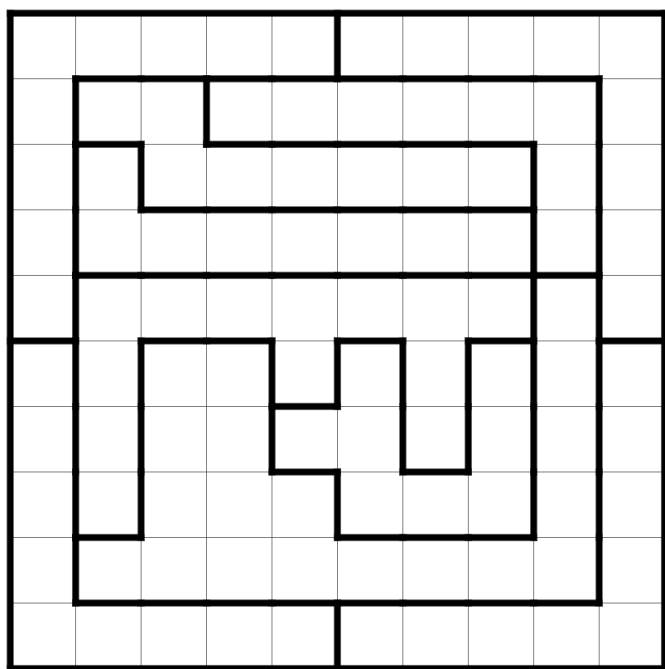
[Puzzle 14](#) (by Kaz) 🌶️🌶️🌶️🌶️



[Puzzle 15](#) "CMU" (by Kaz) 🌶️🌶️🌶️🌶️



[Puzzle 16](#) (by Eric Fox) 🌶️🌶️🌶️🌶️🌶️  
This puzzle is also a 2★ star battle!



[Puzzle 17](#) "Easy as 123" (by Jonas Gleim)  
🌶️🌶️🌶️🌶️🌶️

