Colossal Cave Collection Sampler

by Roger Barkan

GRANDMASTER PUZZLES

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Notes:

This sampler contains 5 (out of 100) puzzles from the full title, as well as the hints and solutions for these puzzles.

Puzzles are ordered by approximate difficulty.

Every puzzle has a unique solution that can be reached by logic alone.

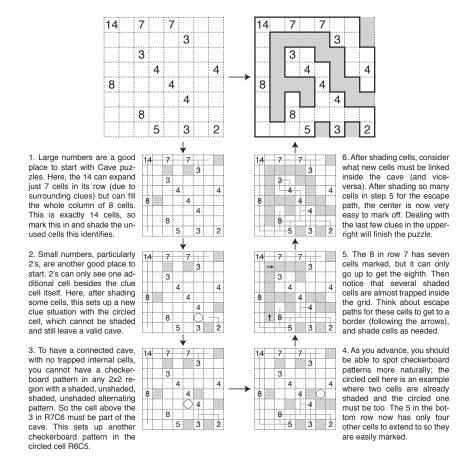
Colossal Cave Collection Sampler © 2016 by Roger Barkan

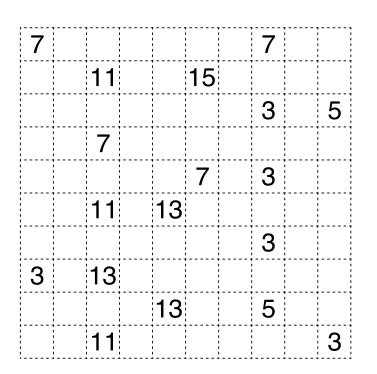
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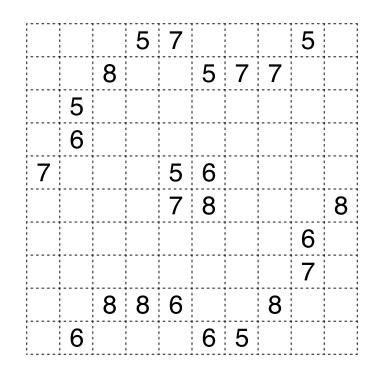
Rules

Shade some cells to leave behind a single connected group — the cave — with no enclosed, shaded cells. In other words, all shaded cells must be connected by other shaded cells to an edge of the grid. All numbered cells must be a part of the cave, with each number indicating the total count of cells connected vertically and horizontally to the numbered cell *including the cell itself*.



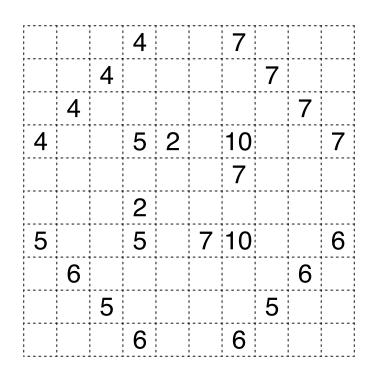




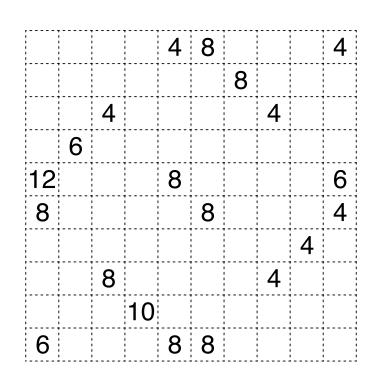


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13



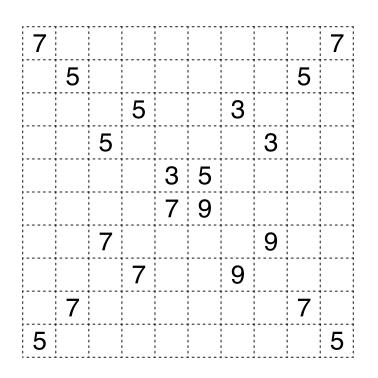
34



6

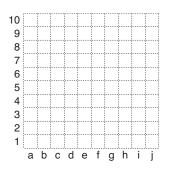
7

63



HINTS AND COMMENTS

In the hints, cells are referred to using a-j to refer to columns from left to right, and 1-10 to refer to rows from bottom to top, as in the diagram to the right.



4) The large numbers in this puzzle will make it difficult for black squares in row 8 and row 4 to get to the edge.

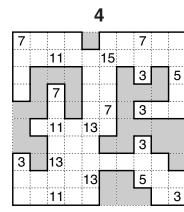
5) Touching but unequal digits often force cells in the orthogonal direction. Here, the 7s in g9 and h9, and the 8s in c2 and d2 can be extended vertically because they must have two more cells than the 5 and 6 in the same row. Is there enough space for the 5 at i10 to be entirely in the top row?

13) This puzzle is unusual in that it solves most easily from the middle out. Leave the 4s for last; they will not resolve until everything else is completed.

34) With this arrangement of givens, black squares in the middle will not have many options to reach the edge. To begin, force a black square at e8 and make sure that it has a path out.

63) The 7 at d3 cannot go both up and right without cutting off the black at e4, so c3 cannot be black. i1 and j2 cannot both be white, affecting the 7 at i2.

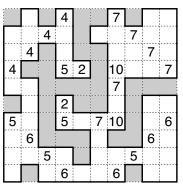
10



					,				
			5	7				5	
		8			5	7	7		
	5								
	6								
7				5	6				
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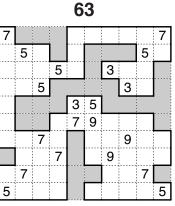
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13



34

				4	8				4
						8			
		4					4		
	6								
12				8					6
8					8				4
								4	
		8					4		
			10						
6				8	8				



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