

SEARCHLIGHTS

36 Handcrafted Puzzles from Beginner to Expert · Solutions Included

Alternative Names: Akari · Light Beams · Lighthouse Puzzles · Beam Search

How to Play & Rules

- Place lights in some white cells.
- Each numbered black cell counts the exact total number of lights it can see along its row and its column.
- Black cells block line of sight; light beams pass through other lights and white cells.
- Lights can shine over other lights, but cannot shine through black barrier cells.
- Every grid has a single unique placement of lights deducible through spatial logic.

Every puzzle has exactly one valid solution, deducible purely through logical reasoning.

Difficulty Levels (36 Puzzles)

Stage	Grid Sizes	Puzzles
Intro	5×5	3
Easy	5×5 to 6×6	12
Medium	7×7 to 8×8	12
Hard	8×8 to 10×10	12
Expert	10×10	5

Solved Level Example

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HOW TO PLAY SEARCHLIGHTS

Core Rules, Mechanics & Step-by-Step Deductive Strategies

Basic Game Premise & Rules

- Place lights in some white cells.
- Each numbered black cell counts the exact total number of lights it can see along its row and its column.
- Black cells block line of sight; light beams pass through other lights and white cells.
- Lights can shine over other lights, but cannot shine through black barrier cells.
- Every grid has a single unique placement of lights deducible through spatial logic.

Starting Board (Unsolved)

	3			
2		2	0	0
1	1	0	0	1
		1	2	
1		1		2

Initial clues, boundary constraints, and starting state

Completed Solution

●	3	●		
2	●	2	0	0
1	1	0	0	1
●		1	2	●
1		1	●	2

All clues and global constraints satisfied without contradictions

Key Deductive Strategies

Every puzzle has exactly one unique solution. Start by identifying forced moves from extreme clue values. Never guess: if a cell cannot be determined yet, look elsewhere on the board for intersecting constraints.

Puzzle #1EASY

5 × 5

	3			
2		2	0	0
1	1	0	0	1
		1	2	
1		1		2

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Puzzle #2EASY

5 × 5

		0	0	
	2	0		0
2			2	
0	1	2		
0	1			1

Play online: [searchlights/#2](#)

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Puzzle #3EASY

5 × 5

3				2
		0	1	0
		2	1	0
4				2
	2	1	1	0

Play online: [searchlights/#3](#)

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Puzzle #4EASY

5 × 5

2		2	0	
			2	
2	3		0	1
			1	0
			3	0

Play online: [searchlights/#4](#)

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Puzzle #5

EASY

5 × 5

				2
				3
	1	2	2	
0	1	0	0	0
			1	

Play online: [searchlights/#5](#)

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Puzzle #6

EASY

5 × 5

3				
2				3
1		2	4	0
		4		1
1	3			

Play online: [searchlights/#6](#)

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Puzzle #7

EASY

5 × 5

0				1
	3		0	2
		3	2	

Play online: [searchlights/#7](#)

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Puzzle #8

EASY

5 × 5

				3
		5		
3				3
	4	0		
		1	2	0

Play online: [searchlights/#8](#)

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Puzzle #9

EASY

5 × 5

		2		
3		3	3	
	5			
	1			
1	0			

Play online: [searchlights/#9](#)

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Puzzle #10

EASY

5 × 5

		1		
		1		1
0	4			
2		1		
			3	0

Play online: [searchlights/#10](#)

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Puzzle #11

EASY

5 × 5

			4	
				2
2		4		1
				1
1	1		2	

Play online: [searchlights/#11](#)

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Puzzle #12

EASY

5 × 5

3				3
	2		2	
			3	
1		3	0	
0	1			

Play online: [searchlights/#12](#)

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Puzzle #13

MEDIUM

6 × 6

2			2	1	
	2		1		3
0	0	3	2		
1	1			3	
	0	1	0	1	
		1	0	0	

Play online: [searchlights/#13](#)

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Puzzle #14

MEDIUM

6 × 6

1		2		3	
3					4
	1	2			
	2			2	
3		1		1	
	2		0		

Play online: [searchlights/#14](#)

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Puzzle #15

MEDIUM

6 × 6

	2		2	1	0
4		3			3
			1	1	
	1		0	0	
			2	1	
				2	

Play online: [searchlights/#15](#)

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Puzzle #16

MEDIUM

6 × 6

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

Play online: [searchlights/#16](#)

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Puzzle #17

MEDIUM

6 × 6

	0		0		1
		0	2	2	
	3				5
				4	
			5	2	
					5

Play online: [searchlights/#18](#)

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Puzzle #18

MEDIUM

6 × 6

		4	3		
					6
			4	4	0
			3		
	2	3	0		0
4	0	0	1		1

Play online: [searchlights/#19](#)

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Puzzle #19

MEDIUM

6 × 6

			2		
0	1			2	
			0		
2			4		3
					4
	1	4		2	0

Play online: [searchlights/#21](#)

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Puzzle #20

MEDIUM

6 × 6

	2	3	0	3	1
3			1		
2			4		
		5			
	0	3			

Play online: [searchlights/#22](#)

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Puzzle #21

MEDIUM

6 × 6

	2		1	3	
		2			2
			2		
	1	1	2		
	0			2	
4	2			3	

Play online: [searchlights/#23](#)

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Puzzle #22

MEDIUM

6 × 6

		4			
			1		3
4	3			4	
			4		
		1	1		1
		4			2

Play online: [searchlights/#24](#)

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Puzzle #23

MEDIUM

6 × 6

				3	
0		6			
2					
0	3		1		0
			2	2	
				2	0

Play online: [searchlights/#26](#)

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Puzzle #24

MEDIUM

6 × 6

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

Play online: [searchlights/#27](#)

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Puzzle #25

HARD

8 × 8

1		1	1	0			2
0	1	1		2		2	
0	0	1			5		
0		0	1	2		4	3
1	2	0		3			
			2		4		
2			1	5			
					3	2	

Play online: [searchlights/#28](#)

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Puzzle #26

HARD

8 × 8

			3		2		1
		0	1		2		
1	3	0	1			3	0
							4
				7	2		1
0	2		1		0	2	0
	0	1	1		2	0	0
0	3					3	

Play online: [searchlights/#29](#)

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Puzzle #27

HARD

8 × 8

1	0	2				2	2
		5					
3				6		2	
	0	1	3		2		3
0	1	2	1				
6							
	3		3	1			
1	2			2	1	0	1

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Puzzle #28

HARD

8 × 8

		3			2		
2					3	1	1
2	2			2		1	
	3	4		3	1	1	
					6		
4			10				5
		3	0		2		
	2		0	4			

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Puzzle #29

HARD

8 × 8

	2			2	1	2	
	1	2					
2	2			7			4
1	1					2	
		1	3		4		
		2	1		1	2	
	8						7
			2		2		

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Puzzle #30

HARD

8 × 8

	5	3					
				4	0	2	
		2		1		1	2
				2			0
		2	2	0	1		1
5			2		2	1	0
		2	1	1		1	
0	7					3	0

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Puzzle #31

HARD

8 × 8

3		0	2				
	0	2	0			5	
	1		1	0	0		2
			1	1			1
					4		
		2	1	3	2		
	4						
		3			1		1

Play online: [searchlights/#36](#)

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Puzzle #32

HARD

8 × 8

	2	0	1		1	4	
			2		2		
		5					2
5	3		2		2		
			6		2		2
		4		5	1		2
2	1	0			1	4	
		1		3			

Play online: [searchlights/#37](#)

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Puzzle #33

HARD

8 × 8

0			2				
0	3	3					3
				8			
		3				1	1
			7		3		1
1		5			3		
0	6			5			1
			3	0			

Play online: [searchlights/#38](#)

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Puzzle #34

HARD

8 × 8

3			2	1			2
	4			2			
5							
2			0	1			4
	5					7	
				5	2		
2	0	5	1		2		
0		0	1		1		

Play online: [searchlights/#39](#)

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Puzzle #35

HARD

8 × 8

	3				2		1
		6				3	
	4		2	2	1		
5				1	0	3	
		4		1			2
2		3		2			
2							
	3		2		0		

Play online: [searchlights/#41](#)

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Puzzle #36

HARD

8 × 8

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

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SEARCHLIGHTS SOLUTIONS

Complete solved grids for Puzzles #1 to #12

Puzzle #1

Easy (5×5)

●	3	●		
2	●	2	0	0
1	1	0	0	1
●		1	2	●
1		1	●	2

Puzzle #2

Easy (5×5)

		0	0	
●	2	0		0
2	●		2	
0	1	2	●	
0	1	●		1

Puzzle #3

Easy (5×5)

3	●		●	2
		0	1	0
●		2	1	0
4		●	●	2
●	2	1	1	0

Puzzle #4

Easy (5×5)

2	●	2	0	
●			2	●
2	3		0	1
	●		1	0
●	●	●	3	0

Puzzle #5

Easy (5×5)

		●	●	2
	●	●	●	3
	1	2	2	
0	1	0	0	0
	●		1	

Puzzle #6

Easy (5×5)

3		●	●	●
2		●	●	3
1		2	4	0
●	●	4	●	1
1	3	●	●	

Puzzle #7

Easy (5×5)

	●	●		●
0				1
	3		0	2
	●	3	2	●
	●	●	●	●

Puzzle #8

Easy (5×5)

	●	●		3
●	●	5	●	●
3	●		●	3
	4	0		
	●	1	2	0

Puzzle #9

Easy (5×5)

●		2	●	
3	●	3	3	●
●	5	●	●	●
	1	●		
1	0			

Puzzle #10

Easy (5×5)

		1		●
	●	1		1
0	4		●	
2	●	1		
●	●		3	0

Puzzle #11

Easy (5×5)

●		●	4	●
		●		2
2		4	●	1
●				1
1	1	●	2	

Puzzle #12

Easy (5×5)

3	●		●	3
	2	●	2	
●		●	3	●
1		3	0	
0	1	●		

SEARCHLIGHTS SOLUTIONS

Complete solved grids for Puzzles #13 to #24

Puzzle #13

Medium (6×6)

2			2	1	
	2		1		3
0	0	3	2		
1	1			3	
	0	1	0	1	
		1	0	0	

Puzzle #14

Medium (6×6)

1		2		3	
3					4
	1	2			
	2			2	
3		1		1	
	2		0		

Puzzle #15

Medium (6×6)

	2		2	1	0
4		3			3
			1	1	
	1		0	0	
			2	1	
				2	

Puzzle #16

Medium (6×6)

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

Puzzle #17

Medium (6×6)

	0		0		1
		0	2	2	
	3				5
				4	
			5	2	
					5

Puzzle #18

Medium (6×6)

		4	3		
					6
			4	4	0
			3		
	2	3	0		0
4	0	0	1		1

Puzzle #19

Medium (6×6)

			2		
0	1			2	
			0		
2			4		3
					4
	1	4		2	0

Puzzle #20

Medium (6×6)

	2	3	0	3	1
3			1		
2			4		
		5			
	0	3			

Puzzle #21

Medium (6×6)

	2		1	3	
		2			2
			2		
	1	1	2		
	0			2	
4	2			3	

Puzzle #22

Medium (6×6)

		4			
			1		3
4	3			4	
			4		
		1	1		1
		4			2

Puzzle #23

Medium (6×6)

				3	
0		6			
2					
0	3		1		0
			2	2	
			2	0	

Puzzle #24

Medium (6×6)

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

SEARCHLIGHTS SOLUTIONS

Complete solved grids for Puzzles #25 to #36

Puzzle #25

Hard (8×8)

1		1	1	0			2
0	1	1		2		2	
0	0	1			5		
0		0	1	2		4	3
1	2	0		3			
				2		4	
2				1	5		
						3	2

Puzzle #26

Hard (8×8)

			3		2		1
		0	1		2		
1	3	0	1			3	0
							4
				7	2		1
0	2		1		0	2	0
	0	1	1		2	0	0
0	3					3	

Puzzle #27

Hard (8×8)

1	0	2				2	2
		5					
3				6		2	
0	1	2	1				3
0	1	2	1				
6							
	3		3	1			
1	2			2	1	0	1

Puzzle #28

Hard (8×8)

		3		2			
2				3	1	1	
2	2			2		1	
	3	4		3	1	1	
					6		
4			10				5
		3	0		2		
2		0	4				

Puzzle #29

Hard (8×8)

	2			2	1	2	
	1	2					
2	2			7			4
1	1					2	
		1	3		4		
		2	1		1	2	
	8						7
		2		2			

Puzzle #30

Hard (8×8)

	5	3					
				4	0	2	
				2	1	1	2
				2			0
		2	2	0	1		1
5			2		2	1	0
		2	1	1		1	
0	7					3	0

Puzzle #31

Hard (8×8)

3		0	2				
	0	2	0			5	
	1		1	0	0		2
			1	1			1
					4		
		2	1	3	2		
	4						
		3			1		1

Puzzle #32

Hard (8×8)

	2	0	1		1	4	
			2		2		
		5					2
5	3		2		2		
			6		2		2
		4		5	1		2
2	1	0			1	4	
		1		3			

Puzzle #33

Hard (8×8)

0			2				
0	3	3					3
				8			
		3				1	1
			7		3		1
1		5			3		
0	6			5			1
		3	0				

Puzzle #34

Hard (8×8)

3			2	1			2
	4			2			
5							
2			0	1			4
	5					7	
				5	2		
2	0	5	1		2		
0		0	1		1		

Puzzle #35

Hard (8×8)

	3				2		1
		6				3	
	4		2	2	1		
5				1	0	3	
		4		1			2
2		3		2			
2							
	3		2		0		

Puzzle #36

Hard (8×8)

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

Congratulations on completing the puzzles!

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