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Jigsaw Puzzle

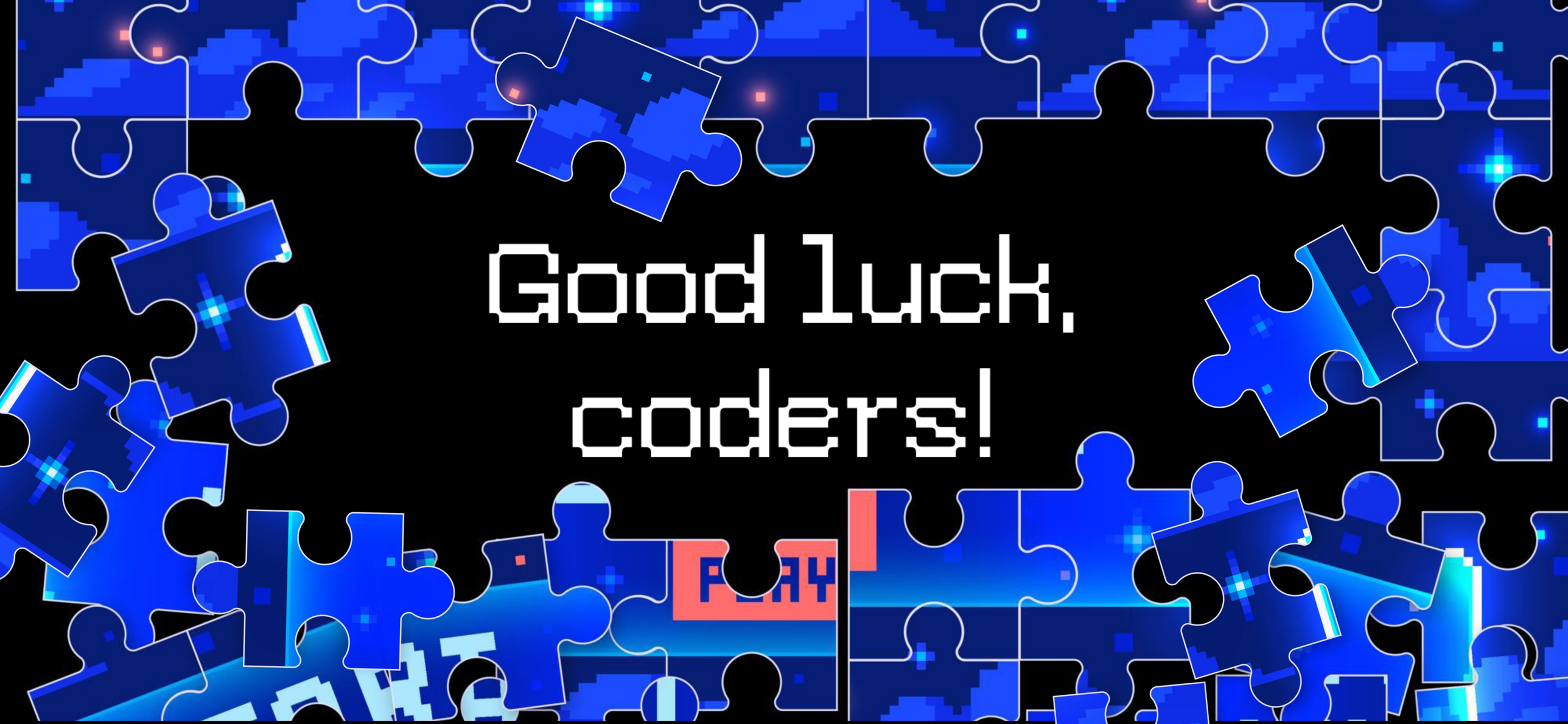
- You are given an assembled edge of a puzzle and list of inner pieces.
- Assemble the whole puzzle so that two neighboring pieces always have one hole and one knob on their connecting sides (just like in the last level).
- You are **not allowed** to change the edge pieces.
- You are **allowed** to rotate the inner pieces.
- There may be multiple correct solutions.

Input

Name	Description	Example
N	An integer representing the number of pieces.	9 K,H,H,K K,K,H,K K,H,K,H K,H,H,H H,H,H,K H,H,K,H H,K,K,K K,K,H,K H,H,H,H 5 E,K,H,E E,K,H,H E,H,H,H E,K,K,K E,E,H,H K,K,K,E K,E,K,K H,K,K,E H,E,H,H H,K,H,E K,E,H,K K,H,E,E K,K,E,K H,K,E,H K,H,E,H K,E,E,K
Piece (repeated N times)		
Puzzle Size	An integer representing the width and height of the puzzle.	
Edge	The assembled edge of the puzzle.	

Output

Name	Description	Example
Puzzle	A correct puzzle containing the given pieces.	E,K,H,E E,K,H,H E,H,H,H E,K,K,K E,E,H,H K,K,K,E K,H,K,H K,K,H,K H,H,K,H K,E,K,K H,K,K,E H,K,K,H K,H,H,H H,K,K,K H,E,H,H H,K,H,E H,H,H,H K,H,K,K H,H,H,K K,E,H,K K,H,E,E K,K,E,K H,K,E,H K,H,E,H K,E,E,K



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