

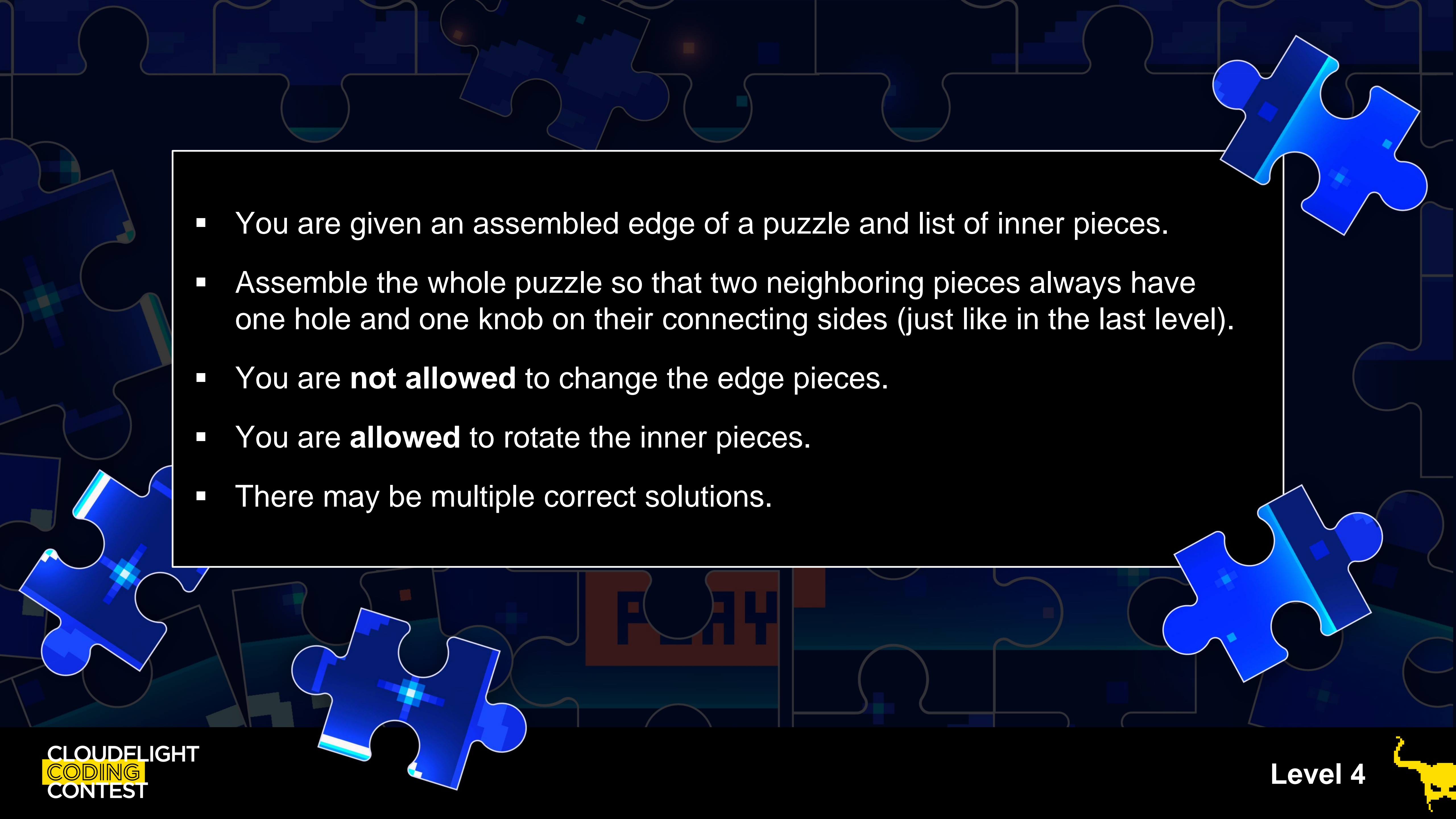
LEVEL 4

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Jigsaw Puzzle



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- The background of the slide is a dark blue field filled with various shapes of puzzle pieces. Some pieces are solid blue, while others are dark blue with lighter blue patterns. A white rectangular box with a thin border is centered on the slide, containing a list of rules. In the bottom right corner, there is a yellow silhouette of a cat. The word 'PLAY' is written in a pixelated font on a brown rectangular sign in the lower center.
- 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





Good Luck,
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