



START
NEW GAME

PLAY

CLOUDELIGHT
CODING
CONTEST

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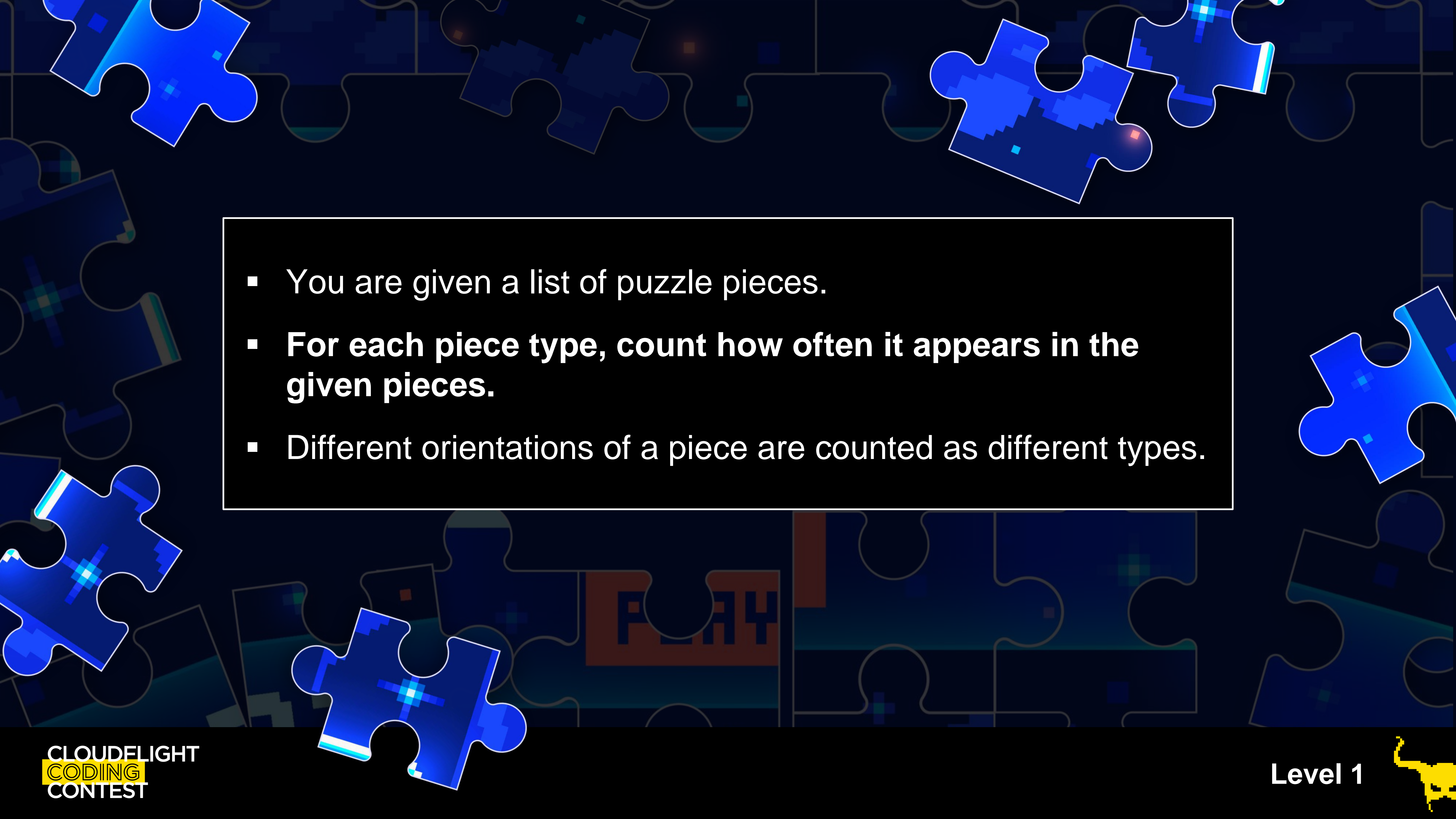
LEVEL 1

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Jigsaw Puzzle

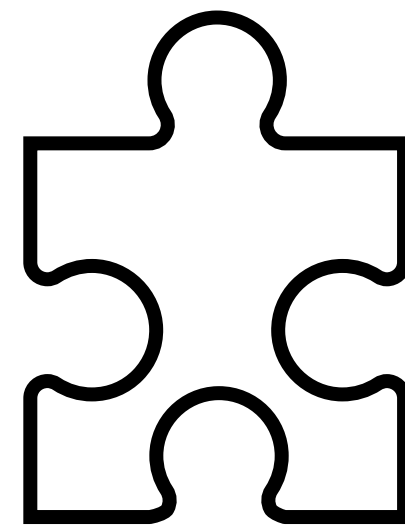


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- The background is dark blue with several light blue puzzle pieces scattered around. In the center, there is a dark blue rectangular box with a white border containing a list of three items. At the bottom center, there is a brown rectangular button with the word 'PLAY' in white capital letters.
- You are given a list of puzzle pieces.
 - **For each piece type, count how often it appears in the given pieces.**
 - Different orientations of a piece are counted as different types.

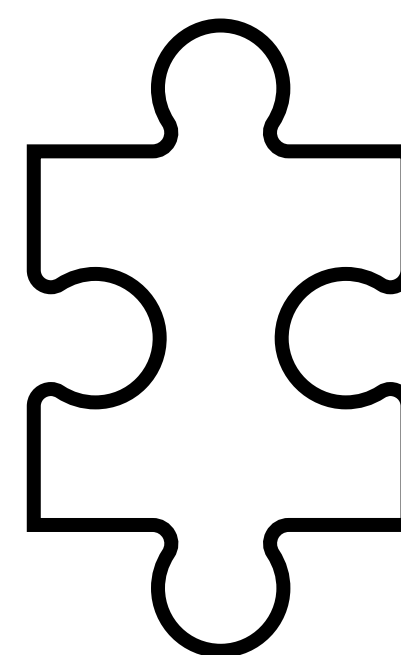


- Each piece is described by 4 characters.
- Each character describes one side of the piece.
- 'K' represents a knob,
'H' represents a hole.
- The 4 characters that describe piece are given in this order:
top, right, bottom, left.

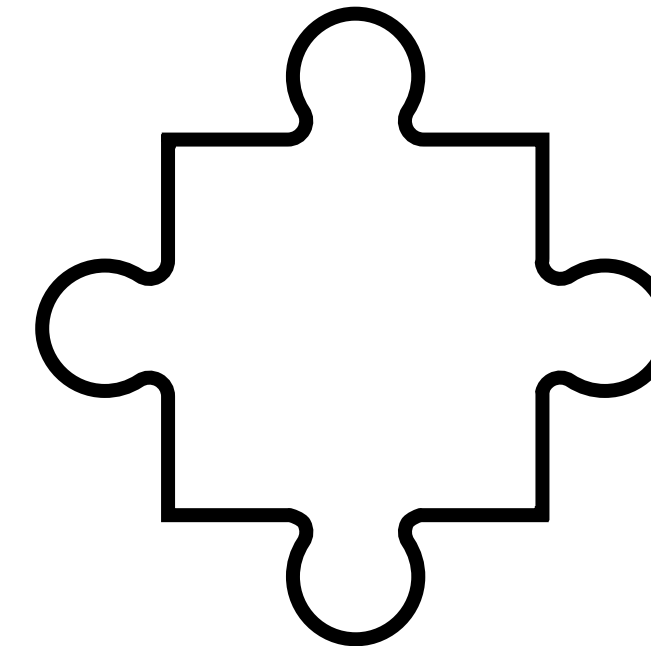
K,H,H,H



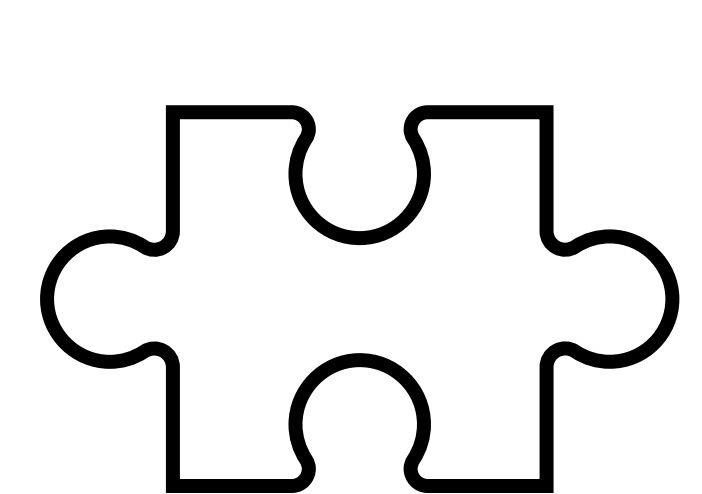
K,H,K,H



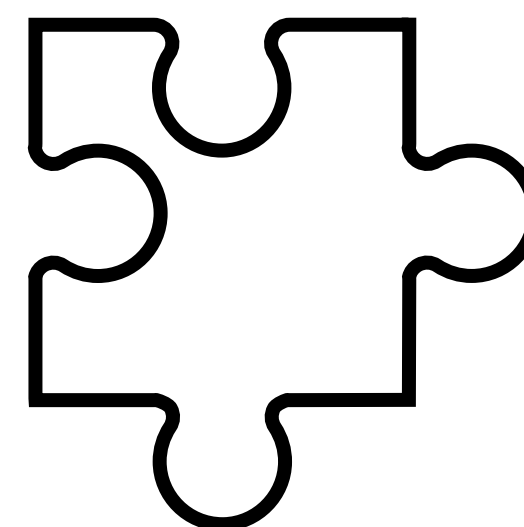
K,K,K,K



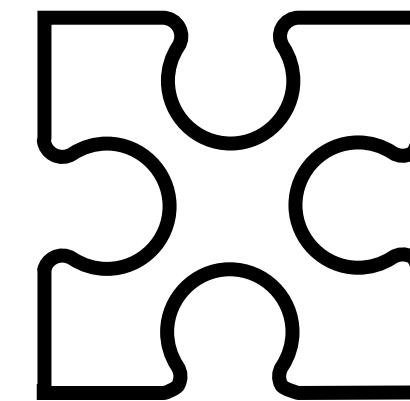
H,K,H,K



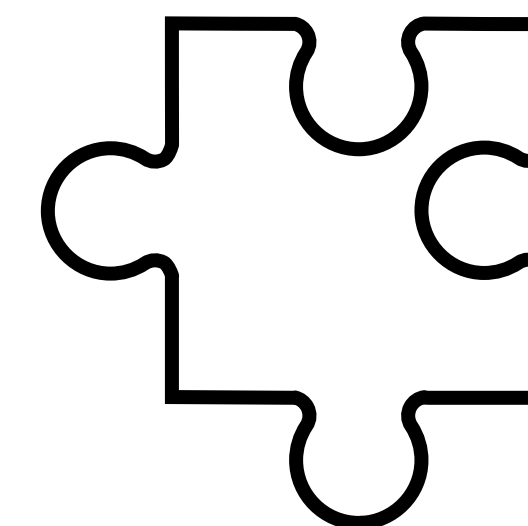
H,K,K,H



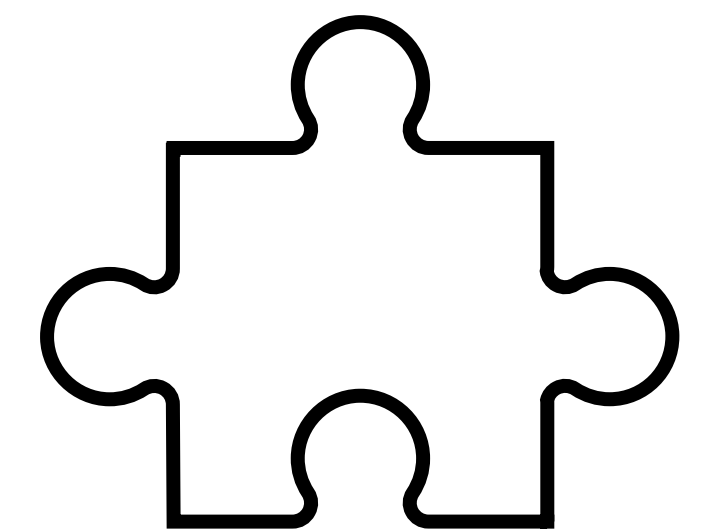
H,H,H,H



H,H,K,K



K,K,H,K



Input

Name	Description	Example
N	An integer representing the number of pieces.	7
Piece (repeated N times)	Each side of the piece is represented by a character. 'H' represents a hole. 'K' represents a knob.	H,H,H,K K,H,K,H H,H,K,K H,H,H,K H,K,H,K K,H,H,K K,K,H,H

Output

Name	Description	Example
Piece Type Count (repeated up to N times)	An integer describing how often the piece type occurred, followed by 4 characters describing the piece type. The order of lines does not matter.	2 H,H,H,K 1 K,H,K,H 1 H,H,K,K 1 H,K,H,K 1 K,H,H,K 1 K,K,H,H





Good Luck, coders!

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