Coding Hour Activity for CSE E - June 24, 2025

Mystery Word Decoder - Challenge Puzzle

Problem Statement:
You're given a 10-letter decoded word, which is the result of a special decoding rule applied to a 5 × 5 grid of letters.

WORD	ABSOLUTELY
5 x 5 GRID	L A B C Y D O E L F G S G E J K B L T M A P Q R U
DECODING PROCESS	Left path: L O S B A → reversed → A B S O L Right path: Y L E T U → reversed → U T E L Y Decoded Word = " ABSOLUTELY "

The grid is read using the following decoding rule:

- ★ From the left side of the grid:
  - Extract characters at positions: (0,0) → (1,1) → (2,1) → (3,1) → (4,0) and Reverse this list.
- ★ From the right side of the grid:
  - Extract characters at positions: (0,4) → (1,3) → (2,3) → (3,3) → (4,4) and Reverse this list.
- ★ Concatenate both reversed parts to form the decoded 10-letter word.

TASK 1: You are given 10 decoded words.

#	Decoded Word
1	ABSOLUTELY
2	BROADCASTS
3	CAFETERIAS
4	DAYDREAMER
5	EAVESDROPS
6	FABULOUSLY
7	GROUNDWORK
8	HACKATHONS
9	IDENTIFIER
10	JUSTIFIERS

Find one possible 5 × 5 input grid for each word, such that applying the decoding rule described above reproduces the word.

Task 2: Write a Python code that verifies your grid produces the decoded word.

Task 3: Push your code to your GitHub profile.

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