

→ Test Cases – Braille Auto-Correct System

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→ Test Case 1: Exact Match

Input:

["DOP", "D", "DK", "DKO", "DOP"]

Expected Output:

hello (distance: 0)

Remarks: Correct input, matches dictionary exactly.

→ Test Case 2: One Typo

Input:

["DOP", "D", "DK", "DWO"]

Expected Output:

help (distance: 1)

Remarks: Slight mistake in the last character, still corrected.

→ Test Case 3: Short Word

Input:

["DK", "D", "DP"]

Expected Output:

cat (distance: 0)

Remarks: Exact match for a short word.

→ Test Case 4: One Extra Input

Input:

["DK", "O", "D", "D"]

Expected Output:

code (distance: 1)

Remarks: One extra key at the end, still correctly suggested.

→Test Case 5: Close to 'dog'

Input:

["DOP", "D", "DO"]

Expected Output:

dog (distance: 1)

Remarks: Partial character typed, but close enough.

→Test Case 6: Extra Key at Start

Input:

["DOK", "D", "DK", "DKO", "DOP"]

Expected Output:

hello (distance: 1)

Remarks: One extra key in the first letter.

→Test Case 7: Unknown Input

Input:

["Q", "W", "O"]

Expected Output:

Closest match (e.g., cat or dog) with high distance

Remarks: Random input to test how gracefully it fails.