

Experiment 04 - Exercise 06: Unique Words Using Sets

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February 14, 2026

Objective

Count the number of unique words in a sentence using sets.

Input

A sentence.

Output

Unique word count (and optionally the set of unique words).

Approach

- Split sentence into words.
- Normalize words (lowercase, remove punctuation if needed).
- Insert into a set to remove duplicates automatically.

Time Complexity

$O(n)$ average-case, where n is the number of words/characters.