### AI ASSISTED CODING

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BATCH:11

**SUB GROUP:C** 

C.1 — [S18C1] Debug de-duplication (case-insensitive)

Context:

Contact records in the real estate listings platform CRM contain duplicates differing only by case.

#### Your Task:

Return the first occurrence of each email (case-insensitive) while preserving original order.

#### Data & Edge Cases:

Input: list of emails. Normalize keys using lowercase; output retains original casing.

#### Al Assistance Expectation:

Use AI to spot bug (reinitializing `seen` in loop) and correct to stable algorithm.

#### Constraints & Notes:

Add unit tests covering mixed-case duplicates.

Sample Input

['A@x.com', 'a@x.com', 'B@y.com']

Sample Output

['A@x.com', 'B@y.com']

Acceptance Criteria: Preserves first occurrence order; case-insensitive matching

#### CODE:

#### **OUTPUT:**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ... Filter

[Running] python -u "c:\Users\gandi\OneDrive\Desktop\lab (7)\AL coding"

All tests passed.

[Done] exited with code=0 in 0.195 seconds
```

#### **QUESTION:2**

C.2 — [S18C2] TDD: slugify titles

### Context:

Titles in the real estate listings platform CMS must become SEO slugs.

### Your Task:

TDD for slugify(text): lowercase, remove non-alnum except hyphen, spaces->hyphen, collapse and trim hyphens.

## Data & Edge Cases:

Include punctuation and multiple spaces.

### Al Assistance Expectation:

Have AI propose parametric tests then implement regex solution.

#### Constraints & Notes:

Return correct slugs.

Sample Input

['Hello World!', 'AI & You', 'Set18-C2']

Sample Output

['hello-world', 'ai-you', 'set18-C2']

Acceptance Criteria: All tests pass

#### CODE:

```
def slugify(text):

# Lowercase
text = text.lower()
# Replace spaces with hyphens
text = re.sub(r'\s+', '-', text)
# Remove non-alphanumeric except hyphens
text = re.sub(r'\s-20-9\-\]', '', text)

# colla
text =
# Trim
text =
# Trim
text =
# Parametri
def test_sl
cases =

('H matches the string last'.

('A The special characters are:

('S
" Matches any character except a newline.

"" Matches any character except an
```

# OUTPUT/INPUT:

```
PROBLEMS OUTPUT ... Filter

Traceback (most recent call last):

AssertionError: Failed: a_b_c -> abc != a-b-c

[Done] exited with code=1 in 0.206 seconds
```