Function Descriptions and Code

1. FindCount(target, searchstr)

Description:
 Counts how many times a specific string (`searchstr`) appears in the `target` string.

Regex Explanation:
 Uses the global flag g in a RegExp to match all occurrences. Escapes special characters to avoid incorrect pattern matching.

Code:

javascript

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```javascript
function FindCount(target, searchstr) {

  const escapedSearch = searchstr.replace(/[.*+?^${}()|[\]\\]/g,
'\\$&');

  const regex = new RegExp(escapedSearch, 'gi');

  const matches = target.match(regex);

  return matches ? matches.length : 0;

}
```

---

2. FindReplace(target, find, replacement)

Description:
 Replaces all occurrences of `find` in the `target` string with `replacement`.

Regex Explanation:
 A global regex (`/g`) is created from the `find` string, ensuring all instances are replaced.

Code:

javascript

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```javascript
function FindReplace(target, find, replacement) {

  const escapedFind = find.replace(/[.*+?^${}()|[\]\\]/g,
'\\$&');

  const regex = new RegExp(escapedFind, 'gi');

  return target.replace(regex, replacement);

}
```

---

3. ReplaceDouble(target, replacement)

Description:
 Finds and replaces duplicate words (like "the the") with a single instance ("the").

Regex Explanation:
 /\b(\w+)\s+\1\b/gi
 Matches a word followed by a space and the same word again. Uses a capture group
(\1) for duplicate detection.

Code:

javascript

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```javascript
function ReplaceDouble(target, replacement) {

  return target.replace(/\b(\w+)\s+\1\b/gi, replacement);

}
```

4. StartCap(target)

Description:
 Capitalizes the first letter of each sentence in the `target`.

Regex Explanation:
 `/(^|[.!?]\s+)([a-z])/g`
 Matches either the start of the string or the end of a sentence (punctuation + space), followed by a lowercase letter. The lowercase letter is then capitalized.

Code:

javascript

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```javascript
function StartCap(target) {

  return target.replace(/(^|[.!?]\s+)([a-z])/g, (_, prefix,
letter) => {

    return prefix + letter.toUpperCase();

  });

}
```

5. HighlightTerms(target, term) *(Custom Function)*

Description:

Wraps all matching `term` entries in the `target` with a `<mark>` tag to highlight them, useful for search features.

Regex Explanation:

Dynamically builds a case-insensitive regex that escapes special characters, then wraps matches with `<mark>`.

Code:

javascript

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```javascript
function HighlightTerms(target, term) {

  const escapedTerm = term.replace(/[.*+?^${}()|[\]\\]/g,
'\\$&');

  const regex = new RegExp(escapedTerm, 'gi');

  return target.replace(regex, (match) =>
`<mark>${match}</mark>`);

}
```