Problem 3582: Generate Tag for Video Caption

Problem Information

Difficulty: Easy
Acceptance Rate: 32.07%
Paid Only: No
Tags: String, Simulation

Problem Description

You are given a string `caption` representing the caption for a video.

The following actions must be performed **in order** to generate a **valid tag** for the video:

1. **Combine all words** in the string into a single _camelCase string_ prefixed with `'#'`. A _camelCase string_ is one where the first letter of all words _except_ the first one is capitalized. All characters after the first character in **each** word must be lowercase.

2. **Remove** all characters that are not an English letter, **except** the first `'#'`.

3. **Truncate** the result to a maximum of 100 characters.

Return the **tag** after performing the actions on `caption`.

Example 1:

Input: caption = "Leetcode daily streak achieved"

Output: "#leetcodeDailyStreakAchieved"

Explanation:

The first letter for all words except `"leetcode"` should be capitalized.

Example 2:

Input: caption = "can I Go There"

Output: "#canIGoThere"

Explanation:

The first letter for all words except `"can"` should be capitalized.

Example 3:

Input: caption = "hhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh
hhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh"

Output: "#hhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh
hhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh"

Explanation:

Since the first word has length 101, we need to truncate the last two letters from the word.

Constraints:

* `1 <= caption.length <= 150` * `caption` consists only of English letters and `' '`.

Code Snippets

C++:

```cpp
class Solution {
public:
string generateTag(string caption) {


}
};
```

Java:

```java
class Solution {
public String generateTag(String caption) {
```

```
        }
    }
}
```

Python3:

```
class Solution:
    def generateTag(self, caption: str) -> str:
```