**First non-repeating character in a stream**

Given an input stream of **A**of **n** characters consisting only of lower case alphabets. The task is to find the first non repeating character, each time a character is inserted to the stream. If there is no such character then append '#' to the answer.

**Example 1:**

**Input:** A = "aabc"

**Output:** "a#bb"

**Explanation:** For every character first non

repeating character is as follow-

"a" - first non-repeating character is 'a'

"aa" - no non-repeating character so '#'

"aab" - first non-repeating character is 'b'

"aabc" - first non-repeating character is 'b'

**Example 2:**

**Input:** A = "zz"

**Output:** "z#"

**Explanation:** For every character first non

repeating character is as follow-

"z" - first non-repeating character is 'z'

"zz" - no non-repeating character so '#'

**Example 2:**

**Input:** A = "aabcdba"

**Output:** "a#bbbcc"

**Your Task:**  
You don't need to read or print anything. Your task is to complete the function **FirstNonRepeating()**which takes A as input parameter and returns a string after processing the input stream.

**Expected Time Complexity:**O(26 \* n)  
**Expected Space Complexity:**O(26)

**Constraints:**  
1 <= n <= 105