

## → String compression

a a b c c c a a a → a2b1c3a3

→ if length of compressed string is > than original then return original.

→ Byte force

a a b c c c a a a , counter = 1  
initially  
↑ ↑  
pointer pointer  
counter c  
previous  
if previous == current  
counter++ else  
counter = 1  
previous = current

→ This algo runs with  $O(n)$  time complexity

&  $O(n)$  space complexity  
because of another string.