BREAK PALINDROME

Input: palindrome = "abccba" **Output:** "aaccba" **Input:** palindrome = "a" **Output:** ""

BACK SPACE STRING COMPARE(`'#'` means a backspace character.)

Input: s = "ab#c", t = "ad#c" **Output:** true **Explanation:** Both s and t become "ac"

Input: s = "ab##", t = "c#d#" **Output:** true **Explanation:** Both s and t become "".

Input: s = "a#c", t = "b" **Output:** false **Explanation:** s becomes "c" while t becomes "b"

GOOD SUB STRING

Input: s = "xyzzaz" **Output:** 1 **Explanation:** There are 4 substrings of size 3: "xyz", "yzz", "zza", and "zaz". The only good substring of length 3 is "xyz".

Input: s = "aababcabc" **Output:** 4 **Explanation:** There are 7 substrings of size 3: "aab", "aba", "bab", "abc", "bca", "cab", and "abc".The good substrings are "abc", "bca", "cab", and "abc".

MAX PRODUCT OF NUMBERS

find three numbers whose product is maximum and OUTPUT the maximum product.

Input: nums = [1,2,3] **Output:** 6

Input: nums = [1,2,3,4] **Output:** 24

Input: nums = [-1,-2,-3] **Output:** -6

PRODUCT OF ARRAY EXCEPT IT SELF

Input: nums = [1,2,3,4] **Output:** [24,12,8,6]

Input: nums = [-1,1,0,-3,3] **Output:** [0,0,9,0,0]

STRING COMPRESSION

Input: chars = ["a","a","b","b","c","c","c"]**Output:**["a","2","b","2","c","3"]

Input: chars = ["a"] **Output:**["a"]

Input: chars = ["a","b","b","b","b","b","b","b","b","b","b","b","b"] **Output:** ["a","b","1","2"]

> REVERSE ONLY LETTERS
>
> **Input:** s = "ab-cd" **Output:** "dc-ba"
>
> **Input:** s = "a-bC-dEf-ghIj" **Output:** "j-Ih-gfE-dCba"
>
> **Input:** s = "Test1ng-Leet=code-Q!" **Output:** "Qedo1ct-eeLg=ntse-T!"