

Number of distinct subsequences

Given a string consisting of lower case English alphabets, the task is to find the number of distinct subsequences of the string

Note: Answer can be very large, so, output will be answer modulo 10^9+7 .

Example 1:

Input:

`s = "gfg"`

Output:

7

Explanation:

The seven distinct subsequences are "", "g", "f", "gf", "fg", "gg" and "gfg" .

Example 2:

Input:

`s = "ggg"`

Output:

4

Explanation:

The four distinct subsequences are "", "g", "gg", "ggg".

Your task:

You do not need to read any input or print anything. The task is to complete the function **distinctSubsequences()**, which takes a string as input and returns an integer.

Expected Time Complexity: $O(|str|)$

Expected Auxiliary Space: $O(|str|)$

Constraints:

$1 \leq |s| \leq 10^5$

s contains lower case English alphabets