

Problem J. Sarmale

Input file: *standard input*
Output file: *standard output*
Time limit: 2 seconds
Memory limit: 1024 mebibytes

Sarmale are made from meat and/or rice (plus other spices and sauces), boiled and wrapped in a leaf of vine or sour cabbage. It is a very good Romanian meal served during Christmas, made with pig meat. And of course, every mother and grandmother has her own special recipe, so there are as many different versions of Sarmale as one can imagine.



You prepared 26 different types of sarmale, identified with letters ‘a’, ‘b’, ‘c’, . . . , ‘z’. You placed them onto a long tray. You know you will have at least two guests for dinner, but are unsure how many. You want to choose some non-empty subarray (contiguous subsequence) of the tray to give to the guests (you will eat the rest). You don’t really know what your guests like and what they don’t, so you decided that, if you have k guests, you will split the subarray into k smaller subarrays, such that each subarray contains the same **number** of different types of sarmale.

So now you have the following problem. Given a string of lowercase English letters, count how many ways there are to take a subarray and split it into two or more subarrays such that the number of different letters in each subarray is the same. To be precise, you need to count the number of splits, not the number of subarrays that can be split.

Input

The first line contains one integer, n , the length of the tray ($2 \leq n \leq 10^6$).

The second line contains a string of n lowercase English letters, denoting the types of sarmale on the tray in order.

Output

Print the number of possible splits modulo $10^9 + 7$.

Examples

<i>standard input</i>	<i>standard output</i>
3 aaa	5
6 aabbaa	43
20 aababbababbababhhsse	7027

Note

In the first example, there are 5 splits. The subarray is underlined below:

The subarray “aaa” can be split in one way into two subarrays.

The subarray “aaa” can be split in one way into two subarrays.

The subarray “aaa” can be split in two ways for two guests and in one way for three guests.