

## Week 3

### Problem 1

#### *Problem Statement:*

Given a string  $s$ , calculate the number of distinct substrings present in the string using hashing.

#### *Input:*

The first line contains a single integer  $n$  denoting the length of the string.

The second line contains a string  $s$  of length  $n$  consisting only of lower-case English letters.

#### *Output:*

Print a single integer denoting the number of distinct substrings of  $s$ .

#### *Constraints:*

$$1 \leq n \leq 10^3$$

#### *Sample Testcases:*

Input	Output
5 abcaa	13

Input	Output
5 aaaaa	5