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D. Borders

time limit per test: 2 seconds² memory limit per test: 512 megabytes

String t is a <u>border</u> of string s, if it is at the same time its suffix and prefix. For example, string abbabba has three borders: abba, a and an empty string.

Given a string s, calculate total number of borders of all its substrings.

Input

First string holds string s ($1 \le |s| \le 400\,000$). The string consists of small english characters.

Output

Output single integer – total number of borders for all substrings of s.

Examples	
input	Сору
ababb	
output	Сору
20	
input	Сору
hhya	
output	Сору
11	
input	Сору
aaazaaa	
output	Сору
50	
input	Сору
а	
output	Сору
1	

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