

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

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A. Number of Different Substrings

time limit per test: 2 seconds¹ memory limit per test: 512 megabytes

Count the number of different substrings of the given string s.

Input

Input contains single string s of length n ($1 \le n \le 400\,000$). The string consists of lowercase English letters.

Output

Print the number of different substrings in the given string.

Examples	
input	Сору
ababba	
output	Сору
15	
input	Сору
mmuc	
output	Сору
9	
input	Сору
xmnnnuu	
output	Сору
24	
input	Сору
nnnn	
output	Сору
4	

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