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A. Suffix Array - 2

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

This task is the same as the previous one, but the length of string is larger. Try to write as efficient an algorithm as possible.

Build a suffix array for the given string s.

Input

Input contains a single string s of length n ($1 \le n \le 400\,000$). String consists of small english letters.

Output

Print n+1 distinct integers, indices of first characters of suffixes of s, ordered in lexicographical order.

Examples	
input	Сору
ababba	
output	Сору
6 5 0 2 4 1 3	
input	Сору
aaaa	
output	Сору
4 3 2 1 0	
input	Сору
ppppplppp	
output	Сору
9 5 8 4 7 3 6 2 1 0	
input	Сору
nn	
output	Сору
2 1 0	

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