

## A. Set of Strings

time limit per test: 1 second  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

You are given a string  $q$ . A sequence of concatenation of these strings is string  $q$  (formally, these strings are distinct.

$k$  strings  $s_1, s_2, \dots, s_k$  is called *beautiful*, if the  $s_1 + s_2 + \dots + s_k = q$ ) and the first characters of

Find any *beautiful* sequence of strings or determine that the *beautiful* sequence doesn't exist.

### Input

The first line contains a positive integer  $k$  ( $1 \leq k \leq 26$ ) — the number of strings that should be in a *beautiful* sequence.

The second line contains string  $q$ , consisting of lowercase Latin letters. The length of the string is within range from 1 to 100, inclusive.

### Output

If such sequence doesn't exist, then print in a single line "NO" (without the quotes). Otherwise, print in the first line "YES" (without the quotes) and in the next  $k$  lines print the *beautiful* sequence of strings  $s_1, s_2, \dots, s_k$ .

If there are multiple possible answers, print any of them.

### Examples

input
1 abca
output
YES abca

input
2 aaacas
output
YES aaa cas

input
4 abc
output
NO

### Note

In the second sample there are two possible answers:  $\{ "aaaca", "s" \}$  and  $\{ "aaa", "cas" \}$ .