**Print All Substrings**

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For a given input string(str), write a function to print all the possible substrings.

**Substring**

A substring is a contiguous sequence of characters within a string.

Example: "cod" is a substring of "coding". Whereas, "cdng" is not as the characters taken are not contiguous

**Input Format:**

The first and only line of input contains a string without any leading and trailing spaces. All the characters in the string would be in lower case.

**Output Format:**

Print the total number of substrings possible, where every substring is printed on a single line and hence the total number of output lines will be equal to the total number of substrings.

**Note:**

The order in which the substrings are printed, does not matter.

**Constraints:**

0 <= N <= 10^6

Where N is the length of the input string.

Time Limit: 1 second

**Sample Input 1:**

abc

**Sample Output 1:**

a

ab

abc

b

bc

c

**Sample Input 2:**

co

**Sample Output 2:**

c

co

o