

Pattern of Strings

Given a string of length N, print a pattern of strings with first line being the given string of length n and keep printing in new line the strings in decreasing order of length till you print the single first character of the given string.

Input: First line of the input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case consists of only one line which contains a string of length N.

Output: Corresponding to each test case, pattern is printed in a new line.

Constraints:

$1 \leq T \leq 30$

$N \leq 5$

Example:

Input:

2

Geeks

th%ik

Output:

Geeks

Geek

Gee

Ge

G

th%ik

th%i

th%

th

t