A. Escape from Stones

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Squirrel Liss lived in a forest peacefully, but unexpected trouble happens. Stones fall from a mountain. Initially Squirrel Liss occupies an interval $[0, 1]$. Next, n stones will fall and Liss will escape from the stones. The stones are numbered from 1 to n in order.

The stones always fall to the center of Liss's interval. When Liss occupies the interval $[k - d, k + d]$ and a stone falls to k, she will escape to the left or to the right. If she escapes to the left, her new interval will be $[k - d, k]$. If she escapes to the right, her new interval will be $[k, k + d]$.

You are given a string s of length n. If the i-th character of s is "l" or "r", when the i-th stone falls Liss will escape to the left or to the right, respectively. Find the sequence of stones' numbers from left to right after all the n stones falls.

Input

The input consists of only one line. The only line contains the string s ($1 \le |s| \le 10^6$). Each character in s will be either "l" or "r".

Output

Output n lines — on the i-th line you should print the i-th stone's number from the left.

Examples

input
llrlr
output
3 5 4 2 1

input
rrlll
output
1 2 5 4 3

input
lrlrr
output
2 4 5 3 1

Note

In the first example, the positions of stones 1, 2, 3, 4, 5 will be , respectively. So you should print the sequence: 3, 5, 4, 2, 1.