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A. Inversions

time limit per test: 1 second memory limit per test: 1024 megabytes input: standard input output: standard output

Given a permutation p_i of n elements, find for each i the number of j such that j < i and $p_j > p_i$.

Input

The first line contains the number n ($1 \le n \le 10^5$), the second line contains n numbers p_i . It is guaranteed that p_i form a permutation of numbers from 1 to n.

Output

Print n numbers, the i-th number is equal to the number of j such that j < i and $p_j > p_i$.

Example

Example	
input	Сору
5 4 1 3 5 2	
output	Сору
0 1 1 0 3	

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