

A. Inversions

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

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

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 ($1 \leq n \leq 10^5$), 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

input	Copy
5 4 1 3 5 2	
output	Copy
0 1 1 0 3	