CODEFORCES
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B. Inversions 2

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

This problem is the reversed version of the previous one. There was a permutation p_i of n elements, for each i we wrote down the number a_i, the number of j such that $j < i$ and $p_j > p_i$. Restore the original permutation for the given a_i.

Input

The first line contains the number n ($1 \le n \le 10^5$), the second line contains n numbers a_i. It is guaranteed that a_i were obtained from some permutation using the procedure described in the statement.

Output

Print n numbers, the original permutation.

Example

input	Copy
5 0 1 1 0 3	

output	Copy
4 1 3 5 2	

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