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ITMO Academy: pilot course » Segment Tree, part 1 » Step 3 » Practice

D. Intersecting Segments

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

Given an array of 2n numbers, each number from 1 to n in it occurs exactly twice. We say that the segment y intersects the segment x if exactly one occurrence of the number y is between the occurrences of the number x. Find for each segment i how many segments there are that intersect with it.

Input

The first line contains the number n ($1 \le n \le 10^5$), the second line contains 2n numbers. It is guaranteed that every number from 1 to n occurs exactly twice.

Output

Print n numbers, the i-th number is equal to the number of segments that intersect with the segment i.

Example

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

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