

Statement

Submissions

Questions

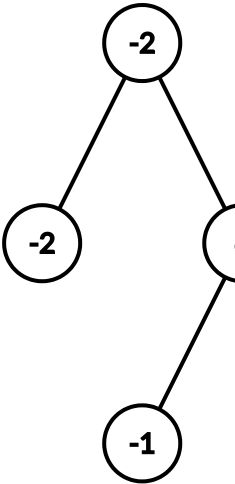
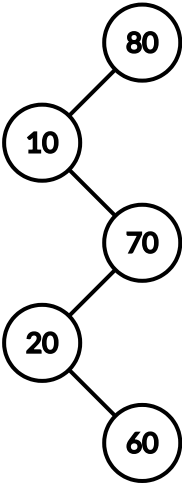
The second line will contain N numbers: x_1, x_2, \dots, x_N .

Standard output

The first line will contain N numbers, corresponding to the depths of the added nodes.

Constraints and notes

- $1 \leq N \leq 2 \cdot 10^5$
- $-10^9 \leq x_i \leq 10^9$

Input	Output	Explanation
<div>4</div> <div>-2 -2 6 -1</div>	<div>1 2 2 3</div>	
<div>5</div> <div>80 10 70 20 60</div>	<div>1 2 3 4 5</div>	

WORKSPACE / SUBMIT