

### Sum of leaf nodes on the tree

Given N numbers, your task is to create the binary search tree and calculate the sum of leaf nodes in the tree.

#### Input Format

The first line is the number of elements  $N(0 \leq N \leq 103)$ .

The second line denotes the value of these elements with N positive integers.

The value of elements are positive integers  $\leq 106$ .

#### Output Format

Print the sum of leaf nodes in the tree.

#### Sample test

inputcopy

6 5 1 2 7 6 8

outputcopy

16

#### Explanation for sample test

*Example 1:*

With the given numbers, the sum is 16.