

List even number

Given N numbers, let's create the binary search tree from those elements.

Using Postorder Traversal, print even numbers in the binary search tree.

Input Format

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

The second line contains N integers with the absolute ≤ 106 .

Output Format

Using Postorder Traversal, print a list of even numbers in the binary search tree in one line.

Sample test

inputcopy

6 5 1 2 7 6 8

outputcopy

2 6 8

inputcopy

1 2

outputcopy

2