

Construct BST

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Given a sorted integer array A of size n, which contains all unique elements. You need to construct a balanced BST from this input array. Return the root of constructed BST.

Note: If array size is even, take first mid as root.

Input format:

The first line of input contains an integer, which denotes the value of n. The following line contains n space separated integers, that denote the values of array.

Output Format:

The first and only line of output contains values of BST nodes, printed in pre order traversal.

Constraints:

Time Limit: 1 second

Sample Input 1:

7

1 2 3 4 5 6 7

Sample Output 1:

4 2 1 3 6 5 7