Tree
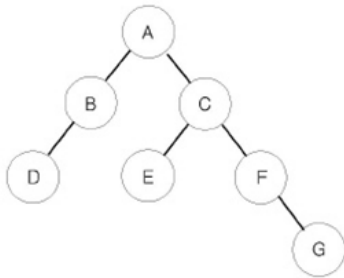
Print pre-order traversal, in-order traversal, and post-order traversal of same tree.

Pre-order: ABDCEFG
In-order: BDAECFG
Post-order: DBEGFCA

Input:

1. Number of Nodes, N, in the tree
2. Node, left child, right child from the root.
3. . means there is no child

Output:

Print Pre-order, In-order, Post-order traversal in line separate.

Sample:

No.	Sample Input	Sample Output
1	7 A B C B D . C E F E . . F . G D . . G . .	ABDCEFG DBAECFG DBEGFCA
2	11 A B C B D E C F G D H I E . . F J K G . . H . . I . . J . . K . .	ABDHIECFJKG HDIBEAJFKCG HIDEBJKFGCA