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The Virtual Learning Environment for Computer Programming

Search in a BST Z11868_en

A **binary search tree** (BST) is a binary tree such that for each node **n** in the tree the elements in the left subtree of the tree rooted at **n** are less than the element at node **n**, and the elements of the right subtree of the tree rooted at **n** are greater than the element at the node **n**. Write a program that first reads a binary tree of integer numbers in pre-order. The input binary tree will be always a BST. Then, the program reads a sequence of integer numbers, and for each number in the sequence determines whether the number is or not in the input BST.

Sample input

180 155 60 -1 80 -1 -1 170 -1 -1 300 240 -1 -1 400 310 -1 340 -1 -1 -1 60 180 400 310 160 0 500

Sample output

Problem information

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Generation: 2024-11-19 10:34:36

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