F. Basic of Binary Search Tree
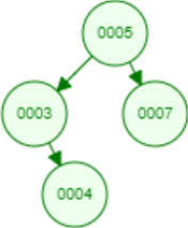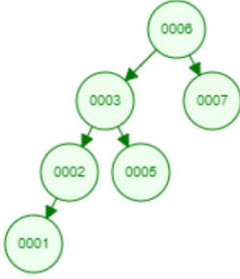
Time Limited: 1 seconds

Problem description

In general computing, binary search trees (BST), sometimes called ordered or sorted binary trees, are a particular type of container: data structures that store "items" (such as numbers, names etc.) in memory. They allow fast lookup.

This is your task: You are asked to develop a program that allow use enter a binary search tree that contains numbers, the tree represented in form of the sequence of numbers. The system displays the height of the tree.

Example 1:

Input:	Explain:
5 3 7 4	The input '5 3 7 4' represents a binary search tree corresponding to below picture
Output: 3	

Example 2

Input:	Explain:
6 3 7 2 5 1	The input '6 3 7 2 5 1' represents a binary search tree corresponding to below picture
Output: 4	