An Autonomous Institution

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RTMENT OF INFORMATION TECHNOLOGY

DATASTRUCTURES

II YEAR III SEM

UNIT 2 –TREE DATASTRUCTURES

TOPIC 5 – BINARY SEARCH TREE

aving a place which holds the dataset. He wants to

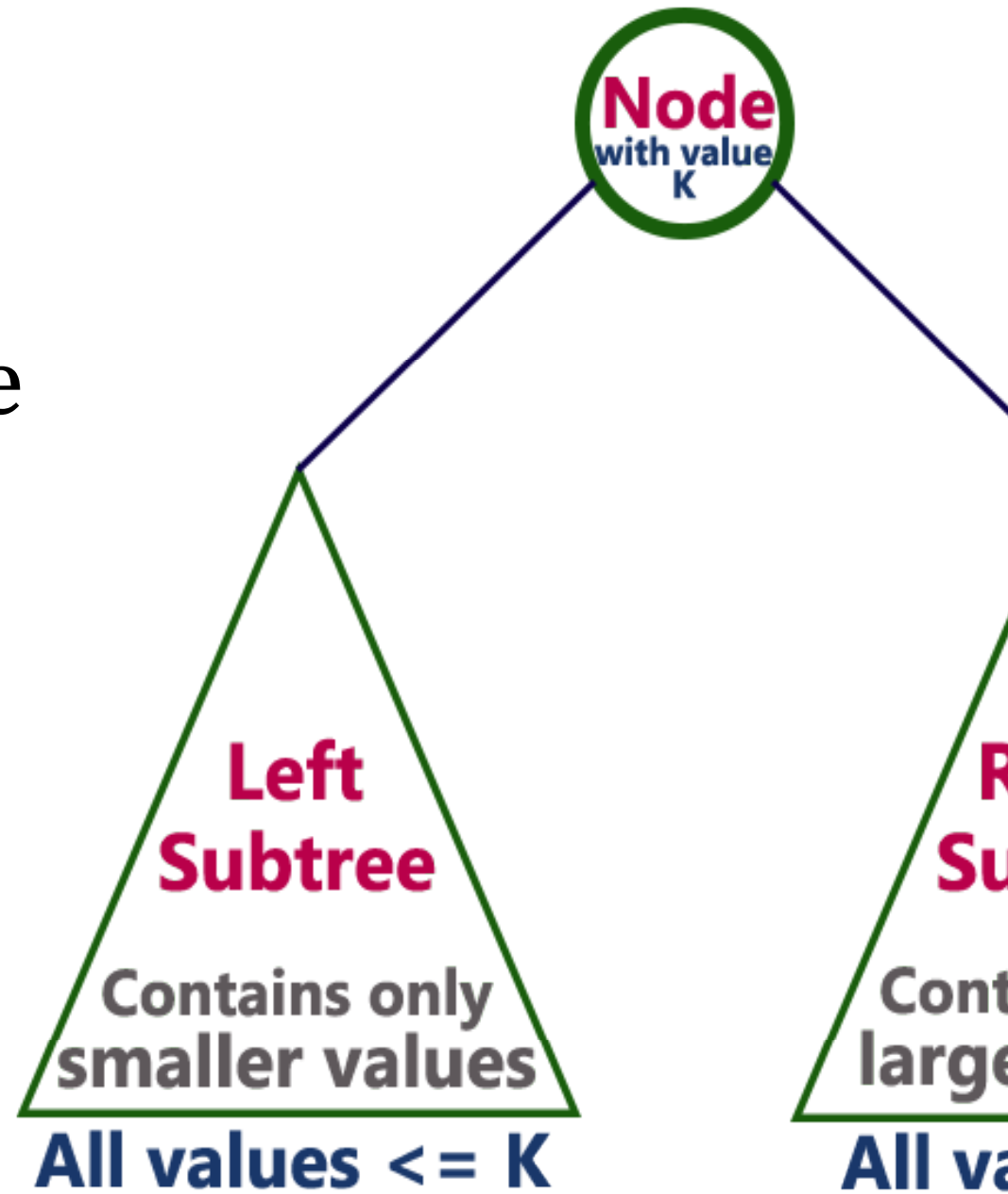taset. But he wants all the data to be stored in a s

hical way.

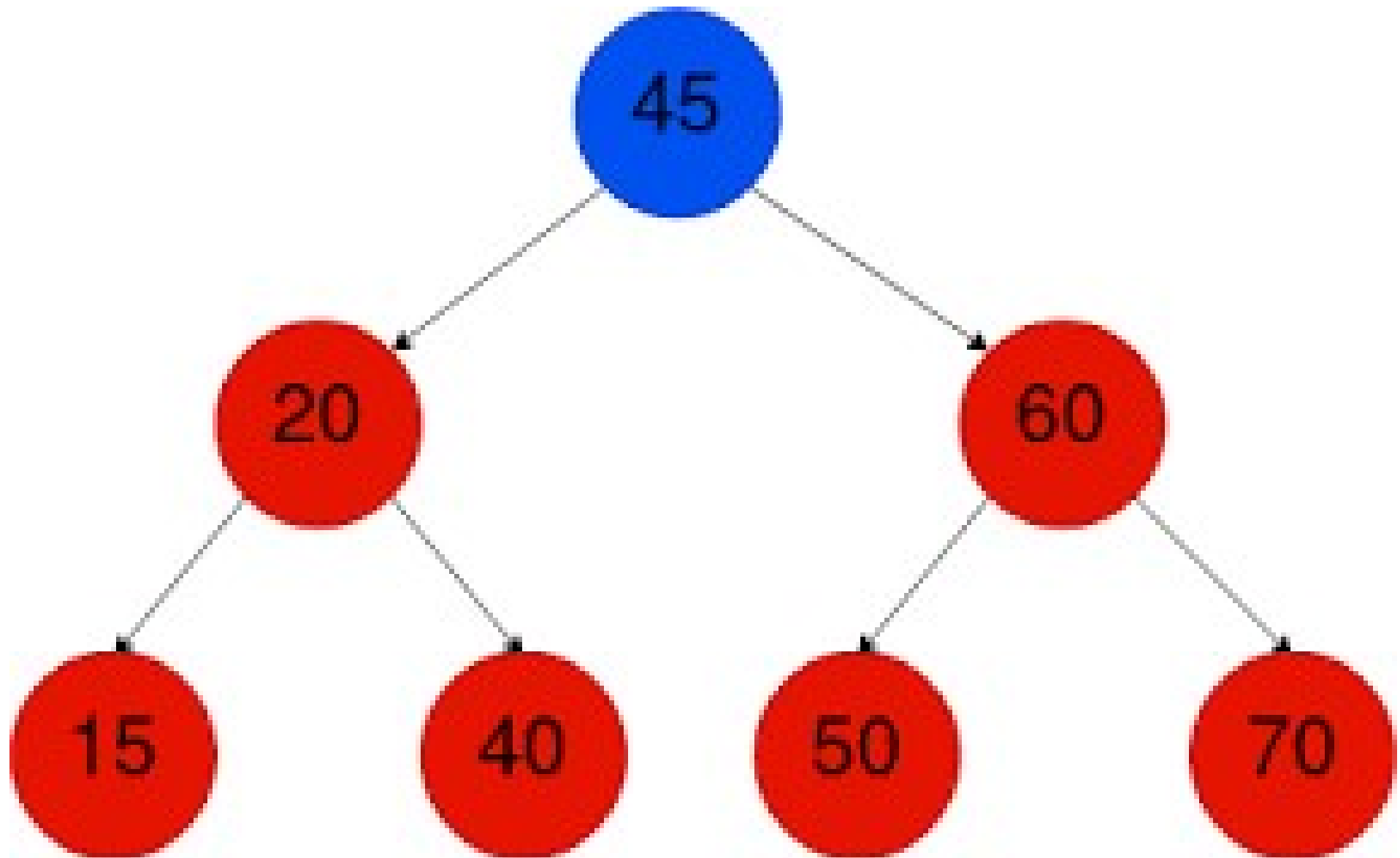he idea used by TOM to arrange data ?

BINARY SEARCH TREE

e in which every node

values in its left subtree

lues in its right subtree

Node with value K

Left Subtree

Contains only smaller values

All values <= K

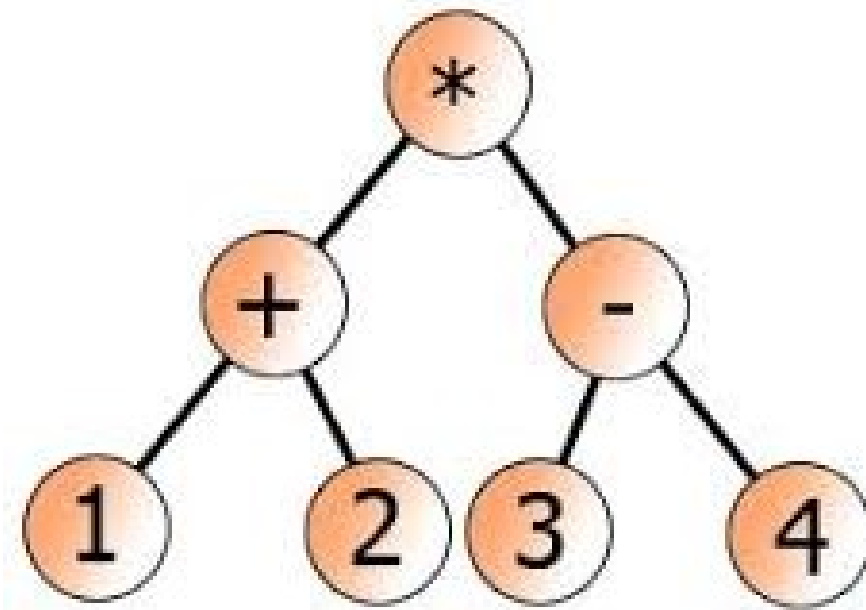**R** **Su**

Cont large

All va

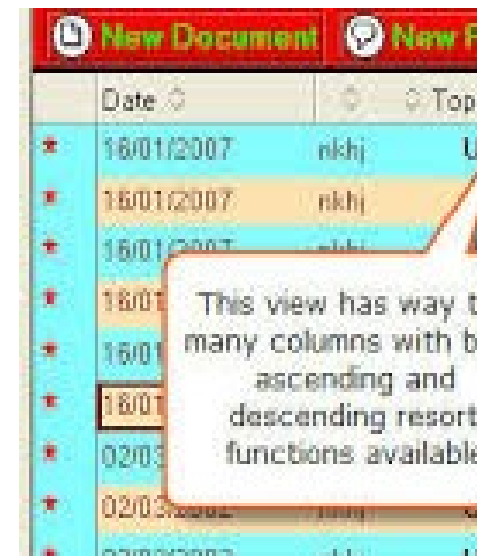# EXAMPLE

g expression trees

g arithmetic expressions

mic sorting

emory Area management
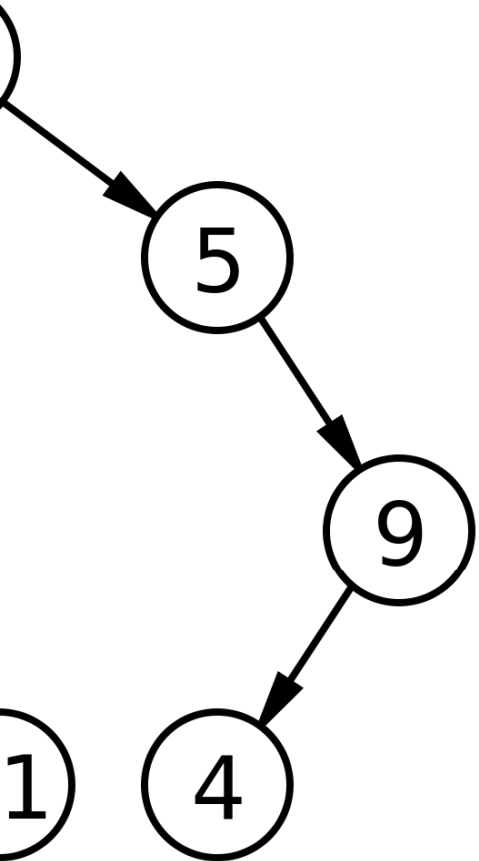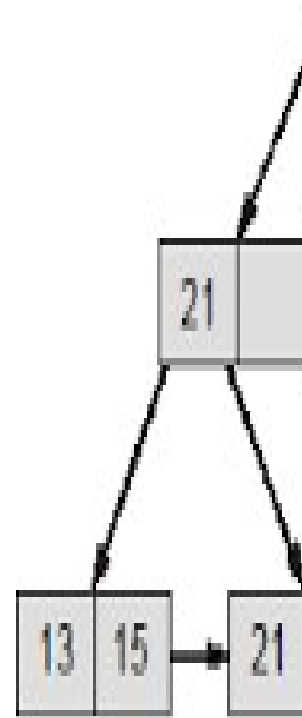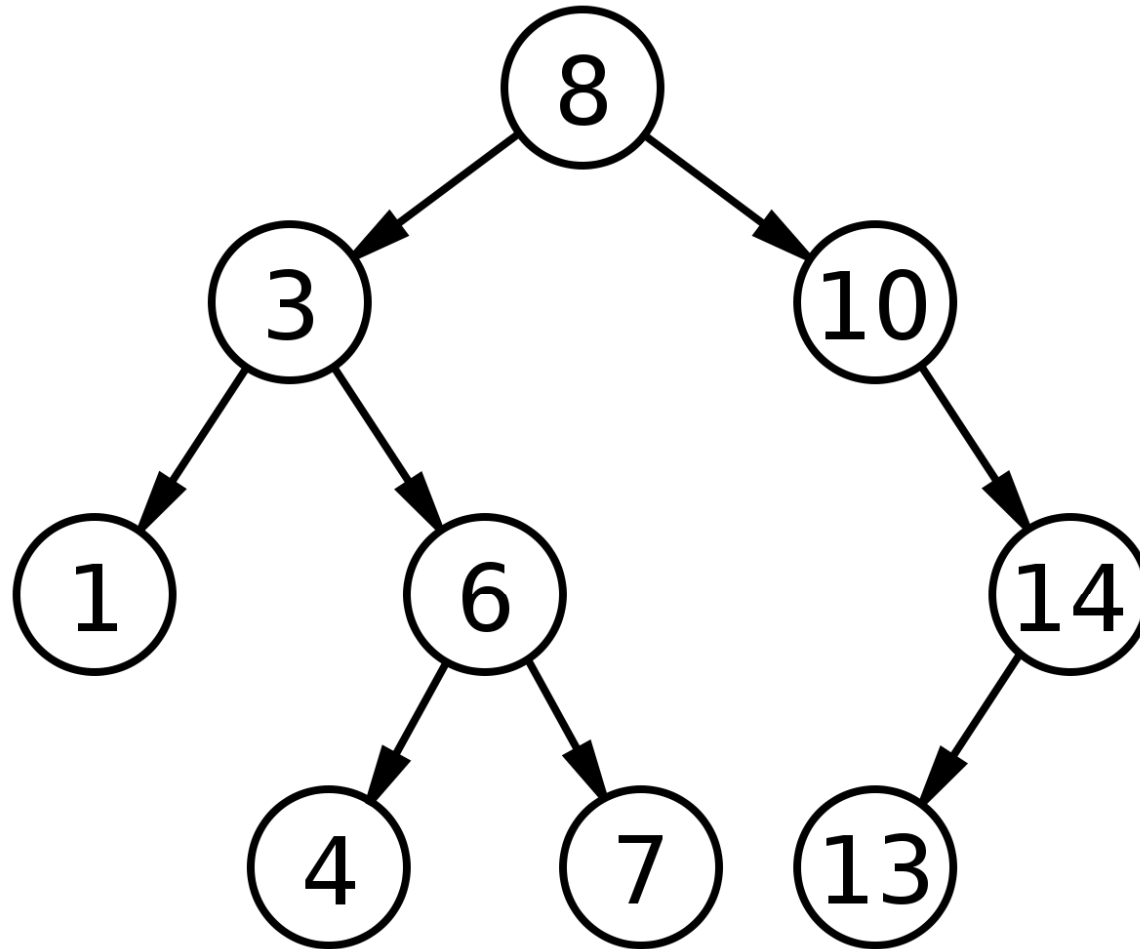
s indexing

$$((1+2)*(3-4))$$

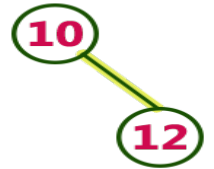ch of the following is the example for Binary search tree
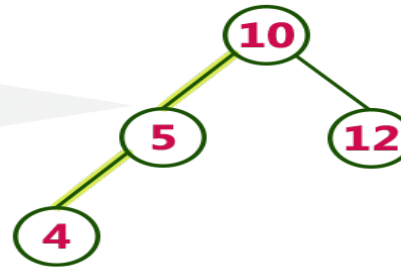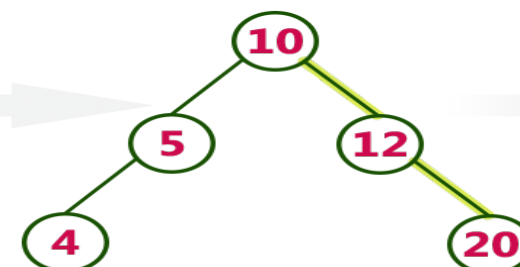
B

OPERATIONS
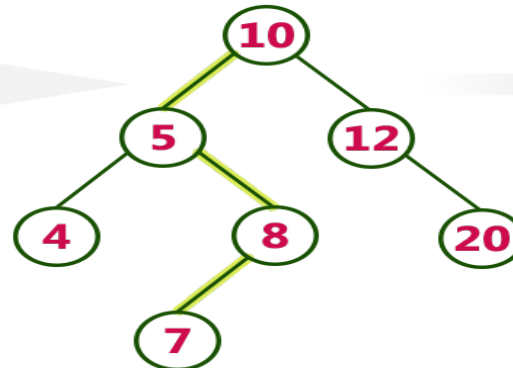
Create()

Display()

insert (10)

insert (12)

insert (4)
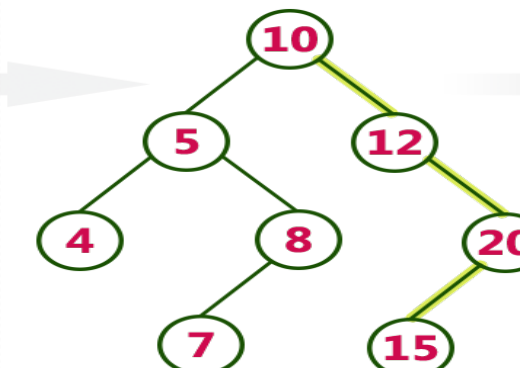
insert (20)

insert (7)

insert (15)

ct and place the following elements in a binary se

2,5,4,20,8,7,15 and 13

/ece.uwaterloo.ca/~dwharder/aads/Lecture_materials

uora.com/datastructuresctures/realtimeexamples

lpoints.com/datast/Binarysearchtree