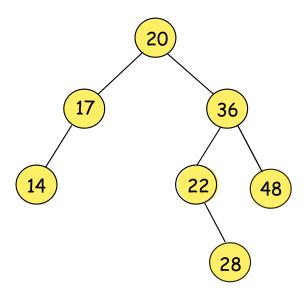
This assignment follows the previous one with some changes. You are to write a C++ program to perform the following operations:

- 1. It first prompts the user to input a sequence of integers to construct a **binary search tree**, in which each node has an additional field *leftSize*. The definition of *leftSize* is the same as given in the textbook.
- 2. After the BST is constructed, allow a user to perform the following operations:
- **Insertions** and **deletions** as we did in the previous assignment but remember to update the *leftsize* field
- Write a function called *avg*(int *l*, int *u*) which returns the average of the elements that are ranked *l*th to *u*th. "Ranking" is defined the same way as we did in the previous assignment

Note that in this assignment, you do not need to consider exceptional situations, such as the argument u in avg() is bigger than n, the number of elements in the tree.

Due date: Dec. 25, 2017.

## Example for *avg*():



avg(2, 4) should return (17+20+22)/3=19.