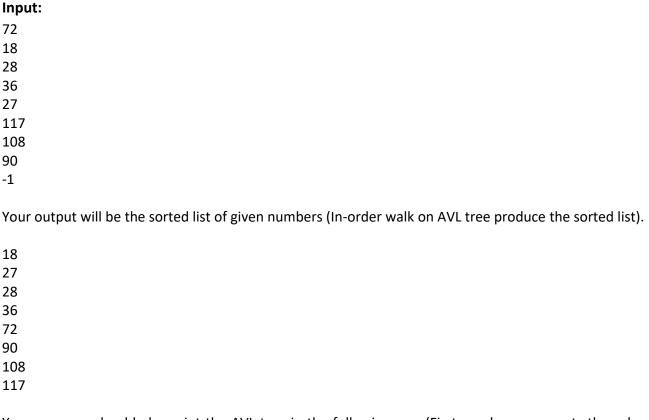
Ankara University

Computer Engineering Department COM2067/COM267 LAB 6

Deadline: 05.12.2022 23:59

Write a program that sorts the given integer values. The number of values is not known in advance. Your program will output the sorted values and the structure of the tree using given output format. (Assume for this lab study, values are distinct). Use AVL tree in your program.



Your program should also print the AVL tree in the following way (First number represents the value, second number displays the parent node and the third number shows the balance factor. B is used for balance factor, L represents left child and R represents right child).

```
28 (-1 B)
18 (28 L) (-1 B) 72 (28 R) (-1 B)
27 (18 R) (0 B) 36 (72 L) (0 B) 108 (72 R) (0 B)
90 (108 L) (0 B) 117 (108 R) (0 B)
```

Output:

```
18
```

27

28

36

72

90 108

117

28 (-1 B)

18 (28 L) (-1 B) 72 (28 R) (-1 B)

27 (18 R) (0 B) 36 (72 L) (0 B) 108 (72 R) (0 B)

90 (108 L) (0 B) 117 (108 R) (0 B)