21 Lecture - CS301

Important Mcqs

- 1. What is the first node added to the AVL Tree in the building example?
 - a) 1
 - b) 2
 - c) 5
 - d) 8

Answer: c) 5

- 2. What is the second node added to the AVL Tree in the building example?
 - a) 1
 - b) 2
 - c) 3
 - d) 8

Answer: b) 2

- 3. How many rotations are performed to maintain balance after inserting node 1 in the AVL Tree?
 - a) 0
 - b) 1
 - c) 2
 - d) 3

Answer: b) 1

- 4. What is the height of the AVL Tree after inserting node 3?
 - a) 1
 - b) 2
 - c) 3
 - d) 4

Answer: b) 2

5. Which rotation is performed after inserting node 6 to maintain balance in the AVL Tree?

- a) Left rotation
- b) Right rotation
- c) Left-right rotation
- d) Right-left rotation

Answer: a) Left rotation

6. What is the height of the AVL Tree after inserting node 9?

a) 3

b) 4

c) 5

d) 6

Answer: b) 4

7. What is the root node of the AVL Tree after inserting all the nodes?

- a) 1
- b) 2
- c) 5
- d) 8

Answer: c) 5

- 8. Which is the last node added to the AVL Tree in the building example?
 - a) 6
 - b) 8
 - c) 9
 - d) 3

Answer: c) 9

9. What is the maximum height of an AVL Tree with 7 nodes?

- a) 2
- b) 3
- c) 4
- d) 5

Answer: b) 3

- 10. How many rotations are performed in total to maintain balance while building the AVL Tree in the example?
 - a) 2
 - b) 3
 - c) 4
 - d) 5

Answer: c) 4