7 Lecture - CS301

Important Mcqs

1. What is postfix notation?

- a) Operators are written before their operands
- b) Operators are written after their operands
- c) Operators are written in between their operands
- d) None of the above

Answer: b) Operators are written after their operands

2. Which data structure is used to evaluate postfix expressions?

- a) Queue
- b) Linked List
- c) Stack
- d) Tree

Answer: c) Stack

3. Which of the following is an example of a postfix expression?

a) 2 + 3 b) 2 * 3 + 4 c) 2 3 + d) (2 + 3) * 4

Answer: c) 2 3 +

4. What is the first step in evaluating a postfix expression?

- a) Scan the expression from right to left
- b) Scan the expression from left to right
- c) Push the first operand onto the stack
- d) Pop the first operand from the stack

Answer: b) Scan the expression from left to right

5. What happens when an operand is encountered in a postfix expression?

- a) It is pushed onto the stack
- b) It is popped from the stack
- c) It is ignored
- d) None of the above

Answer: a) It is pushed onto the stack

6. What happens when an operator is encountered in a postfix expression?

- a) It is pushed onto the stack
- b) It is popped from the stack

- c) The top two operands are popped from the stack, and the operation is performed on them
- d) None of the above

Answer: c) The top two operands are popped from the stack, and the operation is performed on them

- 7. Which of the following is an example of a postfix expression that involves multiplication?
 - a) 2 + 3 b) 2 * 3 + 4 c) 2 3 * d) (2 + 3) * 4

Answer: c) 2 3 *

- 8. What happens when the entire postfix expression has been scanned?
 - a) The result is the top element in the stack
 - b) The result is the bottom element in the stack
 - c) The stack is empty
 - d) None of the above

Answer: a) The result is the top element in the stack

- 9. Which of the following is an example of a postfix expression that involves subtraction?
 - a) 2 + 3
 - b) 2 * 3 + 4
 - c) 2 3 -
 - d) (2 + 3) * 4

Answer: c) 2 3 -

- 10. Which of the following is an example of a postfix expression that involves division?
 - a) 2 + 3 b) 2 * 3 + 4
 - c) 2 3 /
 - d) (2 + 3) * 4

Answer: c) 2 3 /