

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) $2 3 /$