

UNIT-3 DATA STRUCTURES & ALGORITHMS

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AP/CSE/SRMIST

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Across:

- 2
- An _____ is defined by its behavior from the point of view of a user.
- 5
- _____ is a linear data structure in which the insertion and deletion operations are performed at two different ends.
- 6
- The postfix form of the expression (A+ B)*(C*D- E)*F / G is?
- 7
- With what data structure can a priority queue be implemented?
- 9
- Convert the following infix expressions into its equivalent postfix expressions.
(A + B ^D)/(E – F)+G
- 10
- The function that deletes values from a queue is called _____.
- 12
- The stack implemented using _____ can work for the variable size of data.
- 13
- The elements are popped in the _____ order
- 15
- _____ pointer contains the address of the last element of the queue.
In _____ case the problem is simple enough to be solved directly without making any further calls to the same function.
- 16
- In a stack, if a user tries to remove an element from an empty stack it is called _____
- 21
- _____ function is a function that calls itself during its execution.
- 22
- The operator appears in the expression after the operands in _____ expression.
- 24
- What is the time complexity of enqueue operation?

Down:

- 1
- The prefix form of A-B/ (C * D ^ E) is?
- 3
- The unused memory locations in the case of ordinary queues can be utilized in _____.
- 4
- _____ is a function used to insert a new element into stack at top position.
- 8
- The postfix form of A*B+C/D is?
- 11
- Stack is a _____ Data Structure
- 14
- The data structure required to check whether an expression contains a balanced parenthesis is?
- 15
- Circular Queue is also known as _____
- 17
- Stack works on “_____” principle.
- 18
- How many stacks are required for evaluation of prefix expression?
- 20
- If the stack is full, _____ condition is enabled.
- 23
- What is the time complexity of evaluation of postfix expression algorithm?