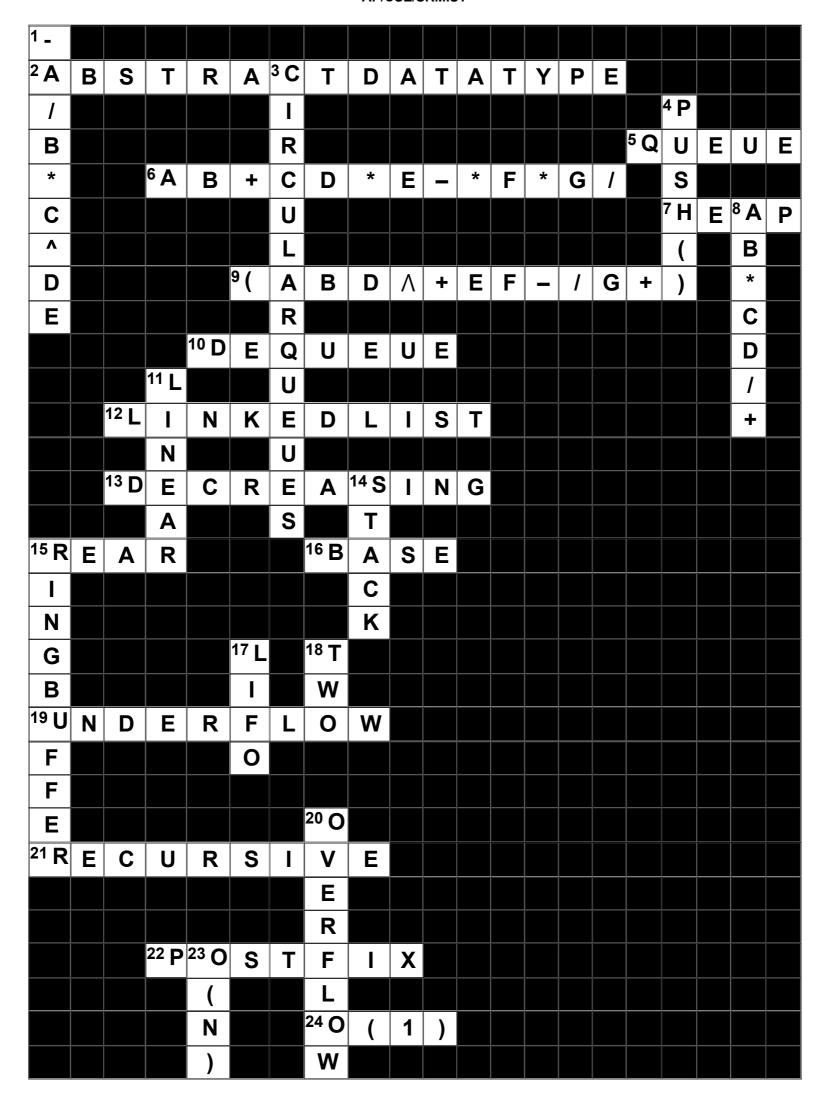
UNIT-3 DATA STRUCTURES & ALGORITHMS

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2 is defined by its behavior from the point of view of a user. is a linear data structure in which the insertion and deletion operations are performed at two different 5 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? Convert the following infix expressions into its equivalent postfix expressions. 9 $(A + B \land D)/(E - F) + G$ 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. _case the problem is simple enough to be solved directly without making any further calls to 16 the same function. 19 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.

The operator appears in the expression after the operands in

What is the time complexity of enqueue operation?

Across:

22

24

Down:

1 The prefix form of A-B/ (C * D ^ E) is? The unused memory locations in the case of ordinary queues can be utilized in 3 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 The data structure required to check whether an expression contains a balanced 14 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?