



National	University of Computer	and Emerging S	ciences (Lahore)
Course:	Applied Programming		
Section:	MCS-1A	Semester:	Spring 2024
Duration:	40 minutes	TotalMarks:	2917
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Question 1: Write a C++ function *printFibonacci(int n)* which prints the Fibonacci numbers till the *nth* term inclusively by using FIFO Queue data structure. You may assume that *Queue* data structure is already implemented.

## Example:

Input: n = 7

Output: 0 1 1 2 3 5 8

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Question 2: Write a C++ function evalRPN(char tokens[], int n), where n is the size of the 1-D character array tokens of tokens that represents an arithmetic expression in Reverse Polish Notation (RPN) a.k.a. Postfix Notation. The function evaluates the given RPN expression and then returns an integer that represents the value, that is the answer, of that expression. You may use any number of helper functions and may assume the implementation of the LIFO Stack data structure.

## Note:

- The valid operators are '+', '-', '\*' and '/'.
- · Each operand may be a single-digit integer or another expression.
- The division between two integers always truncates toward zero.
- . There will not be any division by zero.
- The input represents a valid arithmetic expression in a reverse polish notation.

## Example:

Input: tokens[5] = ["2","1","+","3","\*"], n = 5

Output: 9

Explanation: ((2 + 1) \* 3) = 9

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