1. Write a program to create a singly link list of type string

2. Find middle element of linkldlist

3. A string is anagram or not

4. Stack and Queue Operations

5. Implementation of stack using queue

6.Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

Open brackets must be closed by the same type of brackets.

Open brackets must be closed in the correct order.

Input: s = "()"

Output: true

Input: s = "()[]{}"

Output: true

Input: s = "(]"

Output: false

Input: [(])

Output:False

7.You are given the heads of two sorted linked lists list1 and list2.

Merge the two lists in a one sorted list. The list should be made by splicing together the nodes of the first two lists.

Return the head of the merged linked list.

Input: list1 = [1,2,4], list2 = [1,3,4]

Output: [1,1,2,3,4,4]

Input: list1 = [], list2 = []

Output: []

Input: list1 = [], list2 = [0]

8.Given an array nums. We define a running sum of an array as runningSum[i] = sum(nums[0]…nums[i]).

Return the running sum of nums.

Input: nums = [1,2,3,4]

Output: [1,3,6,10]

Explanation: Running sum is obtained as follows: [1, 1+2, 1+2+3, 1+2+3+4].

Input: nums = [1,1,1,1,1]

Output: [1,2,3,4,5]

Explanation: Running sum is obtained as follows: [1, 1+1, 1+1+1, 1+1+1+1, 1+1+1+1+1].

Input: nums = [3,1,2,10,1]

Output: [3,4,6,16,17]

9. https://my.newtonschool.co/playground/code/7pjrif0inqx6/

10. https://my.newtonschool.co/playground/code/rcl0f5w7231h/

11. Implement a queue using the stack data structure

12.https://my.newtonschool.co/playground/code/7pjrif0inqx6/

13. https://my.newtonschool.co/playground/code/rcl0f5w7231h/

14. Implement a stack using the queue data structure

15.Reverse a stack using recursion

16.https://practice.geeksforgeeks.org/problems/rotate-a-linked-list/1/?page=1&category[]=Linked%20List&sortBy=submissions

17.Longest Palindromic substring in Linear Time

18.https://practice.geeksforgeeks.org/problems/longest-palindromic-substring-in-linear-time/1/?page=1&difficulty[]=2&category[]=Strings&sortBy=submissions

19.Given a string check if it is Pangram or not. A pangram is a sentence containing every letter in the English Alphabet.

Input:

S = Bawds jog, flick quartz, vex nymph

Output: 1

Explantion: In the given input, there

are all the letters of the English

alphabet. Hence, the output is 1.