DSA Practice

Date: Nov 19

Problems:

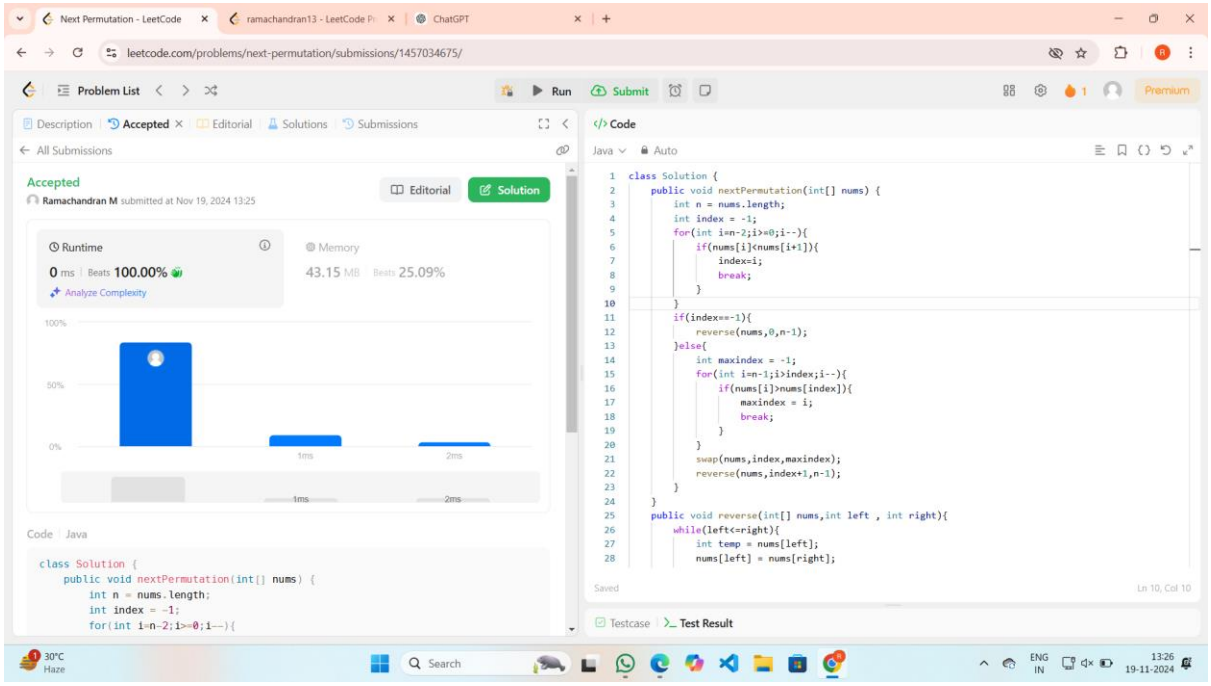
Problems of the day: leetcode problems :

1. next permutation
2. Spiral matrix
3. Longest substring without repeating characters
4. Remove linked list elements
5. Palindrome linked list

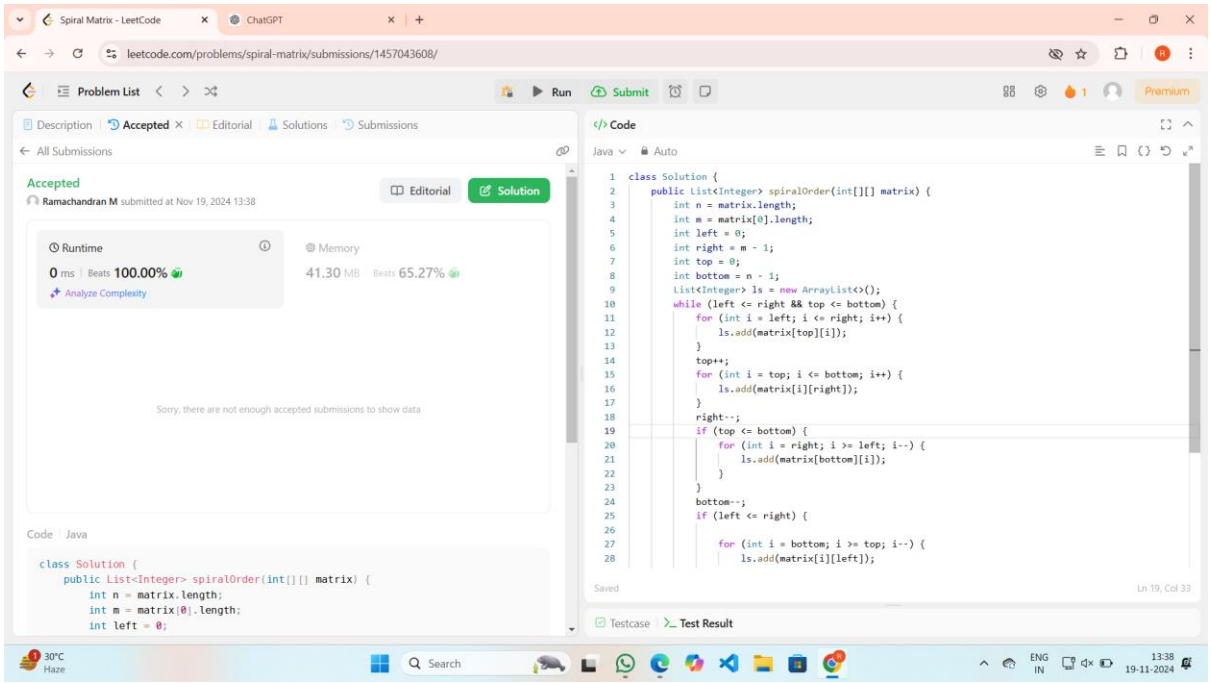
Problems of the day: leetcode problems :

1. Minimum path sum
2. Validate binary search tree
3. Word ladder
4. Word ladder -II
5. Course schedule
6. Design tic tac toe

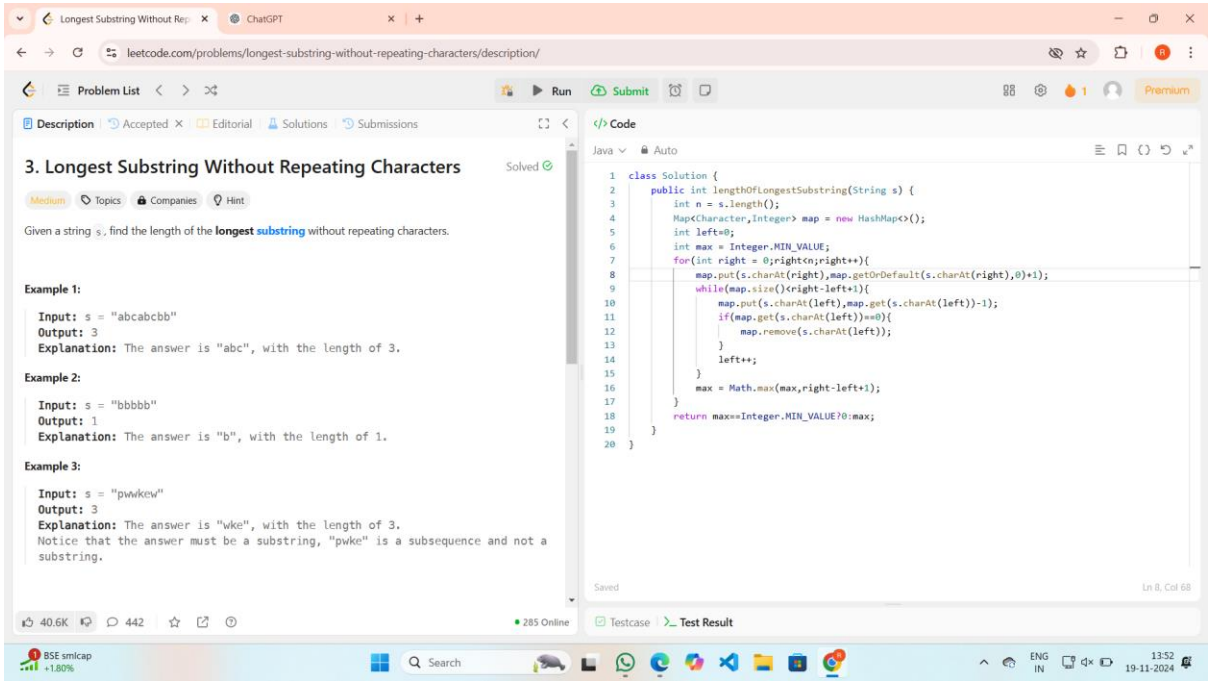
Problem1:



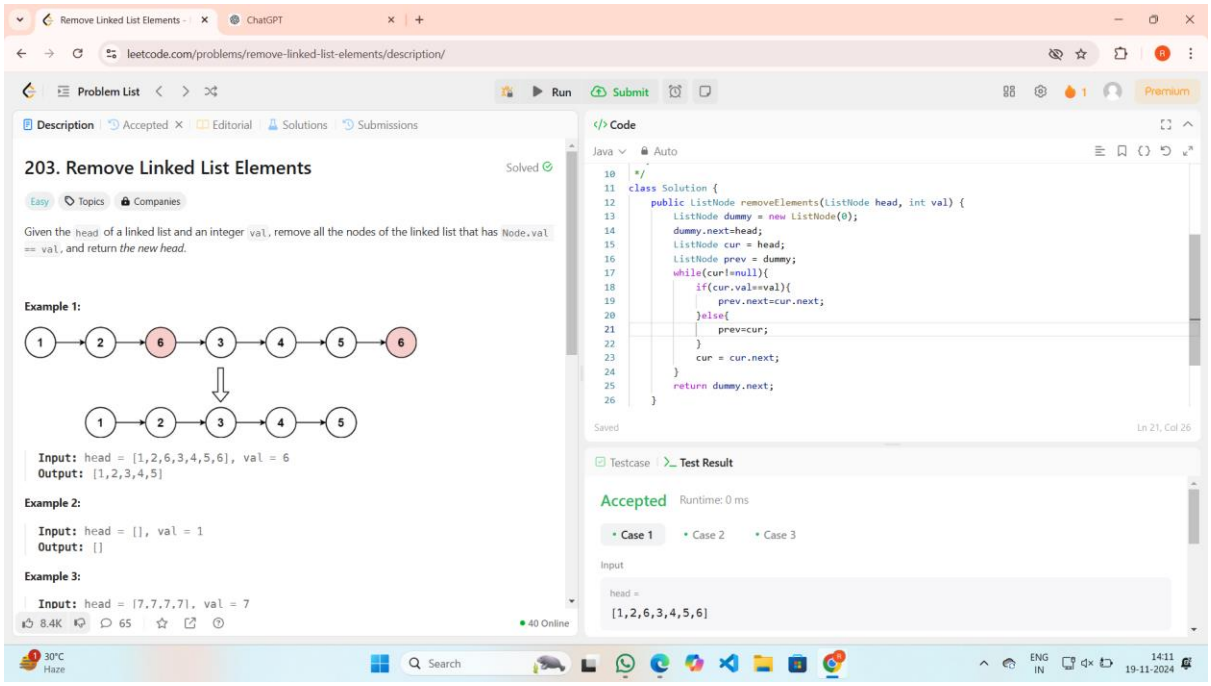
Problem2:



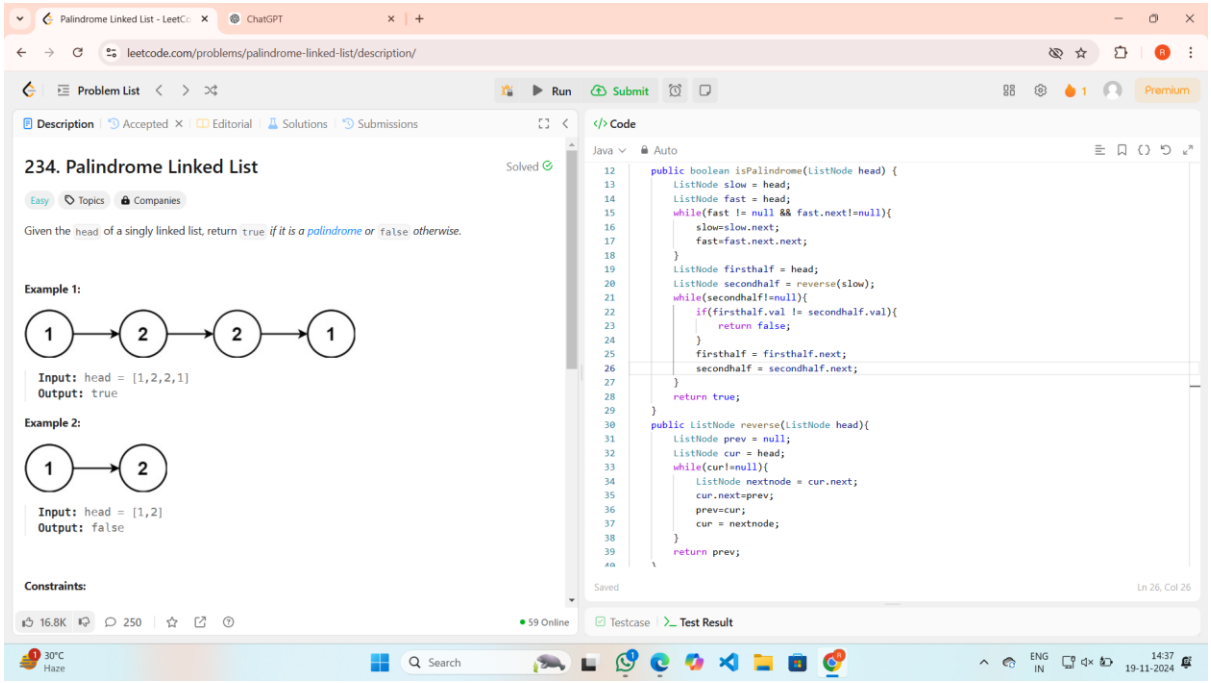
Problem3:



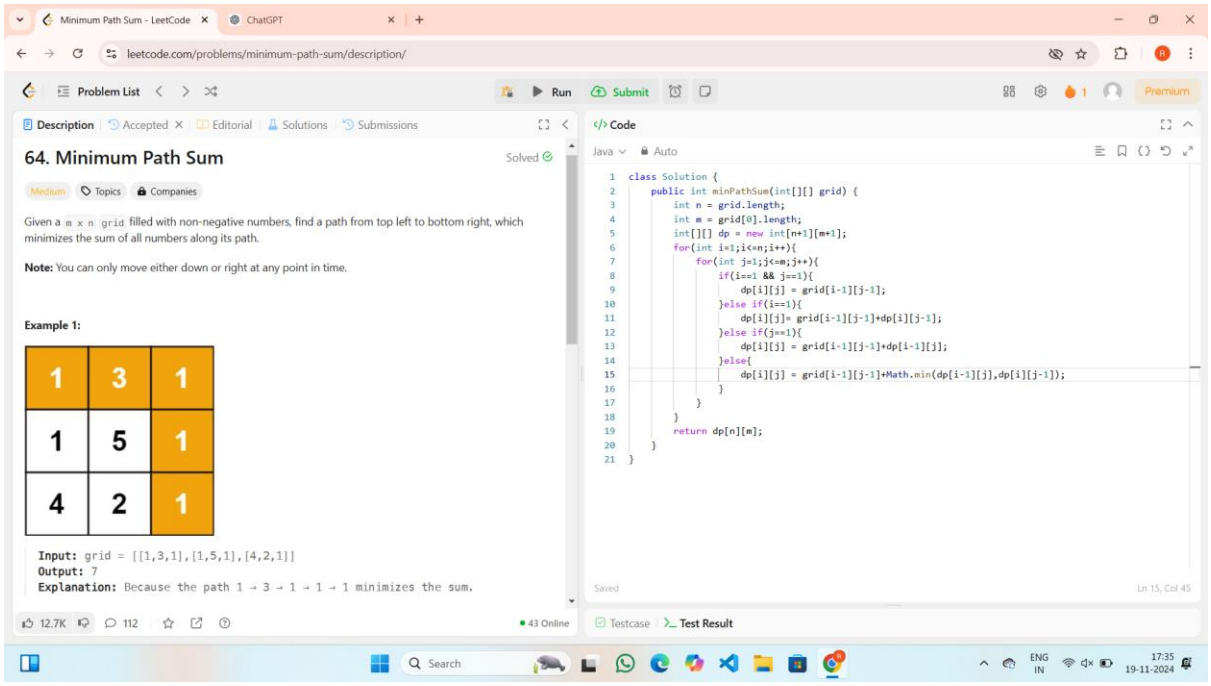
Problem4:



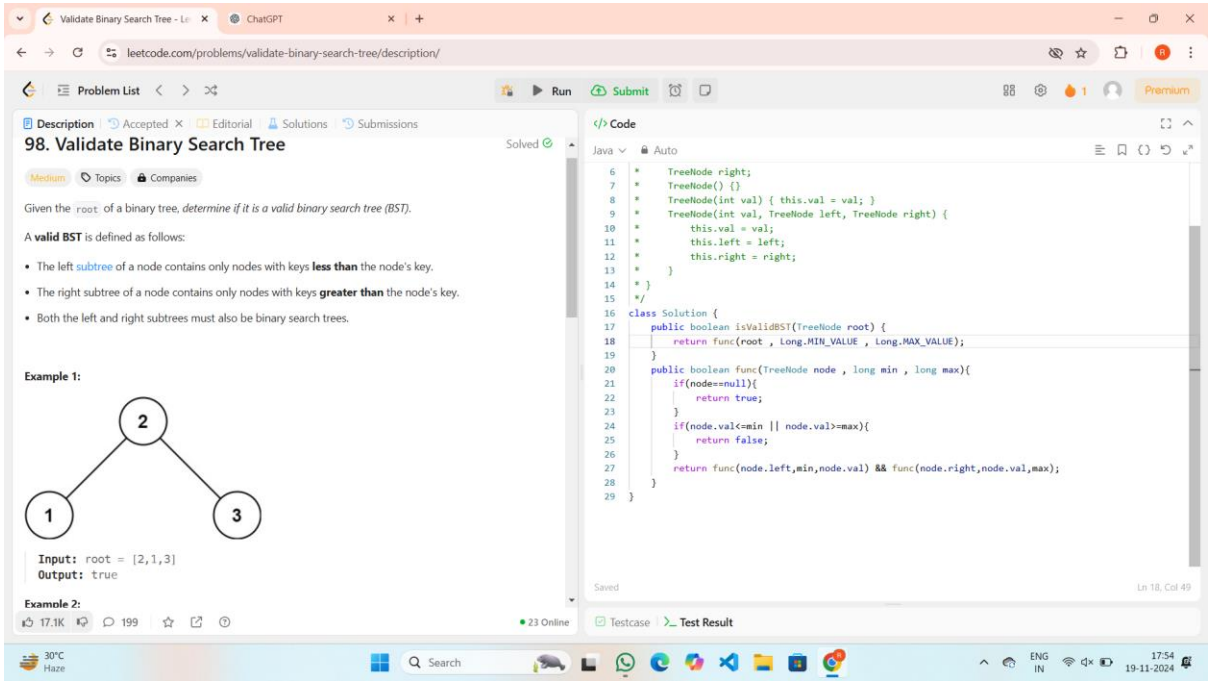
Problem5:



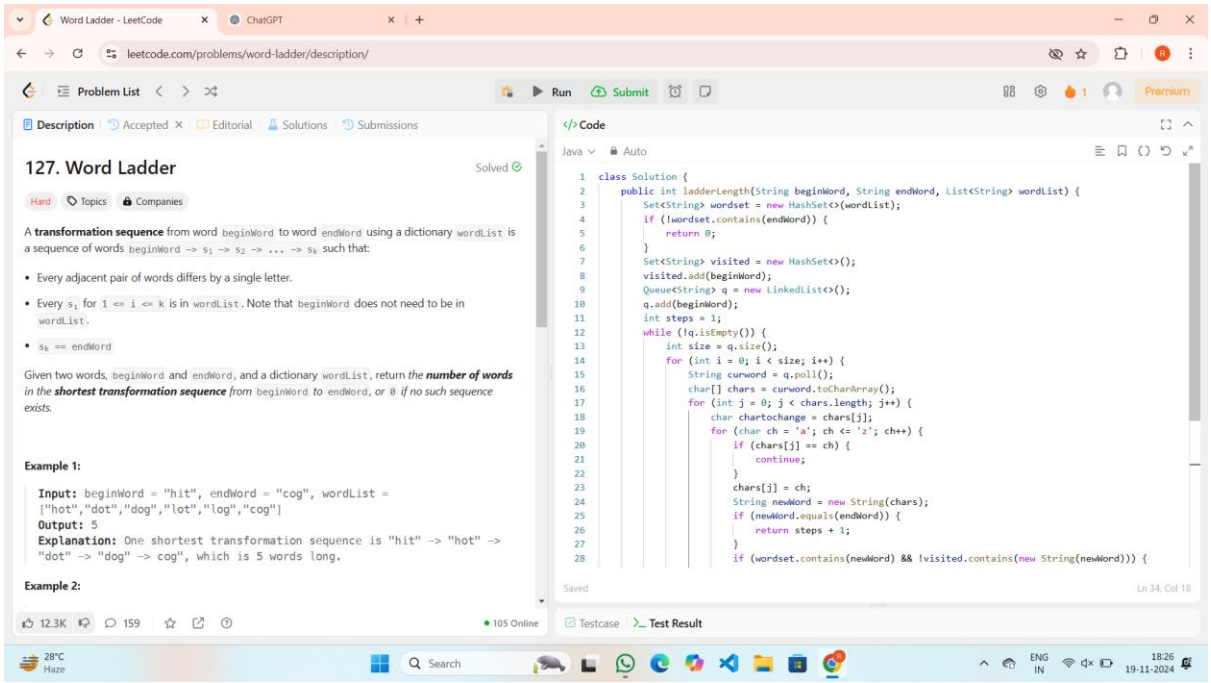
Problem6:



Problem7:



Problem8:


Word Ladder - LeetCode
ChatGPT
leetcode.com/problems/word-ladder/description/
Problem List
Run
Submit
Premium
Description
Accepted
Editorial
Solutions
Submissions
127. Word Ladder
Solved
Hard
Topics
Companies
A transformation sequence from word beginWord to word endWord using a dictionary wordList is a sequence of words beginWord -> s1 -> s2 -> ... -> sk such that:
Every adjacent pair of words differs by a single letter.
Every si for 1 <= i <= k is in wordList. Note that beginWord does not need to be in wordList.
sk == endWord
Given two words, beginWord and endWord, and a dictionary wordList, return the number of words in the shortest transformation sequence from beginWord to endWord, or 0 if no such sequence exists.
Example 1:
Input: beginWord = "hit", endWord = "cog", wordList = ["hot","dot","dog","lot","log","cog"]
Output: 5
Explanation: One shortest transformation sequence is "hit" -> "hot" -> "dot" -> "dog" -> cog", which is 5 words long.
Example 2:
12.3K
159
105 Online
Code
Java
Auto
class Solution {
public int ladderLength(String beginWord, String endWord, List<String> wordList) {
Set<String> wordset = new HashSet<>(wordList);
if (!wordset.contains(endWord)) {
return 0;
}
Set<String> visited = new HashSet<>();
visited.add(beginWord);
Queue<String> q = new LinkedList<>();
q.add(beginWord);
int steps = 1;
while (!q.isEmpty()) {
int size = q.size();
for (int i = 0; i < size; i++) {
String curword = q.poll();
char[] chars = curword.toCharArray();
for (int j = 0; j < chars.length; j++) {
char chartochange = chars[j];
for (char ch = 'a'; ch <= 'z'; ch++) {
if (chars[j] == ch) {
continue;
}
chars[j] = ch;
String newWord = new String(chars);
if (newWord.equals(endWord)) {
return steps + 1;
}
if (wordset.contains(newWord) && !visited.contains(new String(newWord))) {
Saved
Ln 34, Col 18
Testcase
Test Result
28°C
Haze
Search
ENG
IN
18:26
19-11-2024

Problem9: