TCP Roadmap Week : 3-4

Vector in STL: https://www.geeksforgeeks.org/vector-in-cpp-stl/

1 D Array : https://www.hackerearth.com/practice/data-structures/arrays/1-d/tutorial/

2 D Array :
https://www.hackerearth.com/practice/data-structures/arrays/multi-dimensional/tutorial/

3. Strings : https://www.geeksforgeeks.org/stdstring-class-in-c/

4. STL , String , Vector , Pair :
https://drive.google.com/file/d/0B4AmxgIIrh_SS3ZLV1FubU5XR1U/view?resourcekey=0-HizGuXXou95QmxUSJ-bBHw

Questions on Array -

1. **Reverse Array -** https://practice.geeksforgeeks.org/problems/reverse-a-string/1
2. **Maximum and minimum in array**
   https://practice.geeksforgeeks.org/problems/find-minimum-and-maximum-element-in-an-
   array/0
3. **Kth maximum and kth minimum**
   https://practice.geeksforgeeks.org/problems/kth-smallest-element5635/1
4. **Move all 0 to one side of array -**
   https://practice.geeksforgeeks.org/problems/move-all-zeroes-to-end-of-array0751/1
5. **Spiral Traversal -** https://leetcode.com/problems/spiral-matrix/
6. **Diagonal difference -**
   https://www.hackerrank.com/contests/it-beginner-1/challenges/diagonal-difference
7. **Majority element(Moore's Voting Algo) -**
   https://leetcode.com/problems/majority-element/
8. **Find row with maximum number of 1s**
   https://practice.geeksforgeeks.org/problems/row-with-max-1s0023/1
9. **Cyclic rotation of array (left+right) -**
   https://www.hackerrank.com/challenges/circular-array-rotation/problem

10. **Two sum -** https://practice.geeksforgeeks.org/problems/key-pair5616/1

    https://leetcode.com/problems/two-sum/

    https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/

11. **Kadane's Algo-**
https://www.geeksforgeeks.org/largest-sum-contiguous-subarray/
Questions:
https://practice.geeksforgeeks.org/problems/kadanes-algorithm-1587115620/1

https://leetcode.com/problems/maximum-subarray/
https://leetcode.com/problems/maximum-product-subarray/

Questions for String -

1. **Palindrome -** **https://leetcode.com/problems/valid-palindrome/**
2. **Anagram -** **https://leetcode.com/problems/valid-anagram/**
3. **Roman to Integer -** **https://leetcode.com/problems/roman-to-integer/**
4. **Excel Sheet Column Number -**
   https://leetcode.com/problems/excel-sheet-column-number/
5. **Excel Sheet Column Title -** **https://leetcode.com/problems/excel-sheet-column-title/**
6. **Integer to Roman -** **https://leetcode.com/problems/integer-to-roman/**
7. **No. of Palindromic Substrings -**
   https://leetcode.com/problems/palindromic-substrings/
8. **Reverse words in a String-** **https://leetcode.com/problems/reverse-words-in-a-string/**

Difference Array Resource -

https://www.geeksforgeeks.org/difference-array-range-update-query-o1/

Questions on Difference Array -

1. **https://www.hackerrank.com/challenges/crush/problem**

2. **https://www.codechef.com/problems/ZOMCAV**

3. **https://www.codechef.com/problems/DESTCELL**