**Paper set A**

**Q-1**

Given an array of positive integers. Find the length of the longest sub-sequence such that elements in the subsequence are consecutive integers, the**consecutive numbers can be in any order.**

**Example 1:**

**Input:**

N = 7

a[] = {2,6,1,9,4,5,3}

**Output:**

6

**Explanation:**

The consecutive numbers here

are 1, 2, 3, 4, 5, 6. These 6

numbers form the longest consecutive

subsquence.

**Example 2:**

**Input:**

N = 7

a[] = {1,9,3,10,4,20,2}

**Output:**

4

**Explanation:**

1, 2, 3, 4 is the longest

consecutive subsequence.

[GIthub Link For Code - Question 1](https://github.com/MayurdhvajsinhJadeja/CP-Club-365-Days-Coding/blob/main/LHC/92000133001_A_01.py)

**Q-2**

Given a sorted array **arr** containing **n** elements with possibly duplicate elements, the task is to find indexes of first and last occurrences of an element **x** in the given array.

**Example 1:**

**Input:**

n=9, x=5

arr[] = { 1, 3, 5, 5, 5, 5, 67, 123, 125 }

**Output:** 2 5

**Explanation**: First occurrence of 5 is at index 2 and last

  occurrence of 5 is at index 5.

**Example 2:**

**Input:**

n=9, x=7

arr[] = { 1, 3, 5, 5, 5, 5, 7, 123, 125 }

**Output:** 6 6

[Github Link For Code -Question 2](https://github.com/MayurdhvajsinhJadeja/CP-Club-365-Days-Coding/blob/main/LHC/92000133001_A_02.py)

**Q-3 :** Reverse a Linked List (Min 10 element )

**Q-4 :** Given a positive integer N, print count of set bits in it.

**Example 1:**

**Input:**

N = 6

**Output:**

2

**Explanation:**

Binary representation is '110'

So the count of the set bit is 2.

**Example 2:**

**Input:**

8

**Output:**

1

**Explanation:**

Binary representation is '1000'

So the count of the set bit is 1.

[**Github Link For Code - Question 4**](https://github.com/MayurdhvajsinhJadeja/CP-Club-365-Days-Coding/blob/main/LHC/92000133001_A_04.py)

**Q-5** print ASCII values of all characters

[**Github Link For Code - Question 5**](https://github.com/MayurdhvajsinhJadeja/CP-Club-365-Days-Coding/blob/main/LHC/92000133001_A_05.py)