Task 3

Q1 **Maximum Consecutive Ones**

Given a binary array nums, return the maximum number of consecutive 1's in the array.

Example 1:
Input: nums = [1,1,0,1,1,1]
Output: 3

Q2.Plus One
You are given a large integer represented as an integer array digits, where each digits[i]
is the ith digit of the integer. The digits are ordered from most significant to least
significant in left-to-right order. The large integer does not contain any leading 0's.
Increment the large integer by one and return the resulting array of digits.

Example 1:
Input: digits = [1,2,3]
Output: [1,2,4]

Q3.First Repeating Element
Given an array arr[] of size n, find the first repeating element. The element should occur more than once and the index of its first occurrence should be the smallest.

Note:- The position you return should be according to 1-based indexing.

Example 1:

Input:
n = 7
arr[] = {1, 5, 3, 4, 3, 5, 6}
Output: 2

Q4. Find the frequency of each element in the array
Example 1:

Input:
n = 7
arr[] = {1, 5, 3, 1, 3, 5, 6}
Output: 1-2
       5-2
       3-2
       6-1

Q5. Third Maximum Number

Given an integer array nums, return the third distinct maximum number in this array. If the third maximum does not exist, return the maximum number.

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

       Output: 1

Example 2: Input: nums = [1,2]

Output: 2