Assignment 3

Instructions:-

- 1. You need to upload a pdf file for this assignment
- 2. Format:- Q1 code, screenshot of Q1 output, Q2 code, Q2 screenshot of output and so on in the sequence.
- 3. File Naming convention :- ID Lab02.pdf
 - a. Eg:- 202011002 Lab02.pdf
- 1 Program to rearrange array elements having positive and negative elements such that the negative elements appear before the positive ones:

EG: input: 1,100,-1,5, -3,5,-8, -4 output: -1,-3,-8, -4, 1,100,5,5

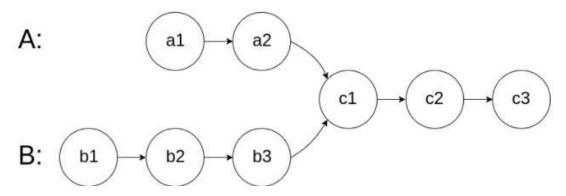
2 program to find the number which occurs more than n/2 times where n is the number of elements in the array(If n is odd then take floor(n/2)

EG: input:- 1 2 3 1 3 2 2 2 3 3 3 3 3 3, n = 14 output: 3

3 program that finds the intersection of two linked lists

EG: input: I1:- a1->a2->c1->c2->c3

12:- b1->b2->b3->c1->c2->c3



output: c1->data

4 Find the missing number in an unsorted array between 1 to n

EG: input:- n=5(n is the range of elements starting from 1, arraysize: n-1)

Hint: Sum of n natural numbers:- (n * (n+1)) / 2

array = 3452

output: 1

5 Merge two sorted linked list such that the resultant list is also a sorted list

EG: input: I1: 1->2->5->9->10

L2: 2->3->6->11

Output:- 1->2->2->3->5->6->9->10->11