

Introduction to Basic Data Structures

Module 7.5: Practice Day 02

(Practice Questions)

Topics:

1. Singly Linked List

Question: Take two singly linked lists as input and check if their sizes are same or not.

Sample Input	Sample Output
2 1 5 3 4 9 -1 1 2 3 4 5 6 -1	YES
5 1 4 5 -1 5 1 4 -1	NO

Question: Take a singly linked list as input and print the reverse of the linked list.

Sample Input	Sample Output
5 4 8 6 2 1 -1	126845
1 2 3 4 -1	4 3 2 1

Question: Take a singly linked list as input and print the middle element. If there are multiple values in the middle print both.

Sample Input	Sample Output
2 4 6 8 10 -1	6
1 2 3 4 5 6 -1	3 4

Question: Take a singly linked list as input, then print the maximum value of them.

Sample Input	Sample Output
24135425-1	5
5412568413-1	8

Question: Take a singly linked list as input and sort it in descending order. Then print the list.

Sample Input	Sample Output
1 4 5 2 7 -1	75421
20 40 30 10 50 60 -1	60 50 40 30 20 10