

IIITD&M Kancheepuram
Data Structures and Algorithms Practice
Course code: CS1006

Date: 25/4/2024
Duration: 2:30 Hours.

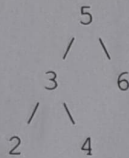
Set No: 3
Total Marks: 40

Roll no: CS23I1027

Name: YERRAGOLAM HARITH

1. Write a C program to create a mirror image of a binary tree. (Mirror of a Binary Tree T is another Binary Tree M(T) with left and right children of all non-leaf nodes interchanged.)

Input:

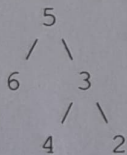


Output:

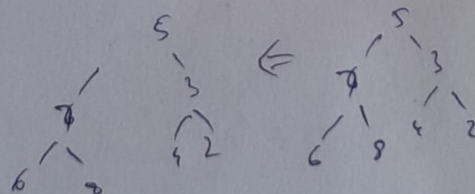
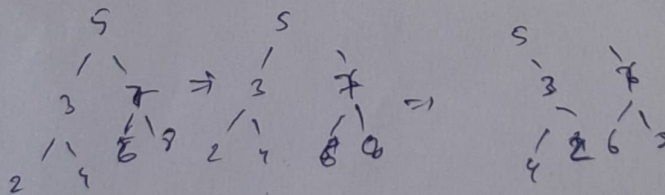
Inorder of original tree: 2 3 4 5 6

Inorder of mirror tree: 6 5 4 3 2

Mirror tree will be:



2. Write a C program to check does the single linked list is palindrome or not?



5 → right = mirror(3) = 3

3 → right = mirror(2) = 2

2 → right = 2