

Case Study 4

Course(s): Java DSA

Day: 10

Problem Statement

Implement the Binary MLM Plan for an organization.

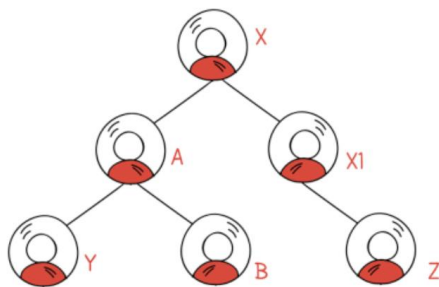
The binary MLM compensation plan is the most popular network marketing plan with rapid growth opportunities. The two-legged plan balances business and distributor growth by encouraging teamwork with attractive compensations.

The binary MLM plan is defined as a compensation plan that consists of two legs (left leg and right leg) or subtrees under every distributor.

Upon adding subtrees, a binary tree gets formed. New members joining after them are spilled over to the downlines or next business level.

Implement the below scenario

Distributor X sponsors two new members A & X1. They are added on the left and right leg as they were vacant. Distributor A then sponsors a new member B to the direct right leg. Meanwhile, distributor X has sponsored Y & Z. The binary tree looks now like



You need to implement this case study using Binary Tree Data Structure.

You must implement the below functionalities.

1. Distributor Class
2. MLM Tree Class
3. Suitable methods to the above classes to achieve functionality

Steps

1. Create a class Distributor, with suitable attributes (eg: name, phone, email, right, left etc.)
2. Create a class MLM Tree, with suitable attributes (eg: organizationName, numOfDistributors, etc..)

3. Implement the following methods in MLM Tree Class:
 - a. insertRootDistributor(Distributor user)
 - b. sponsorNewDistributor(Distributor newDistributor, Distributor sponsor)
 - c. iterateTreeOfUser(User user)