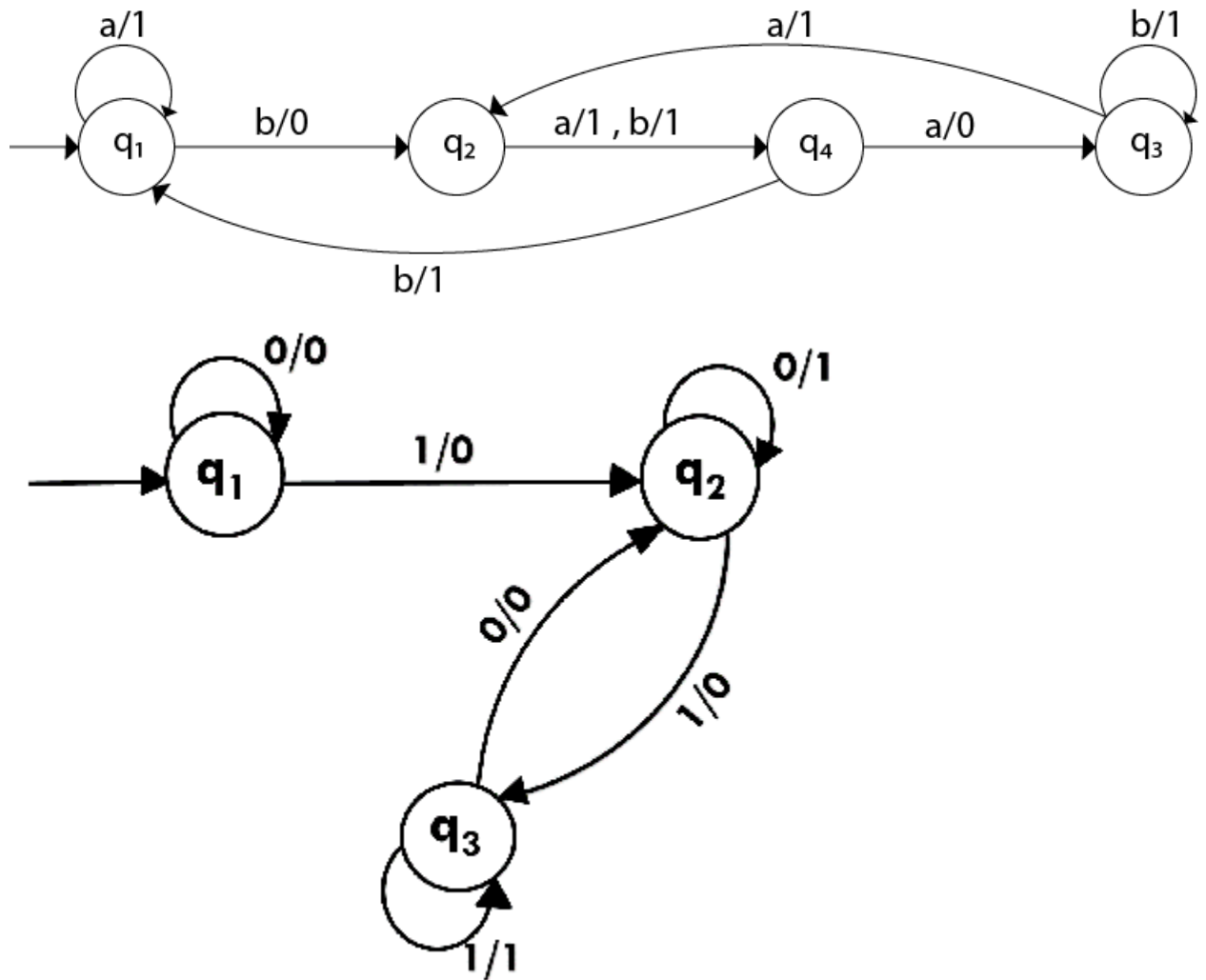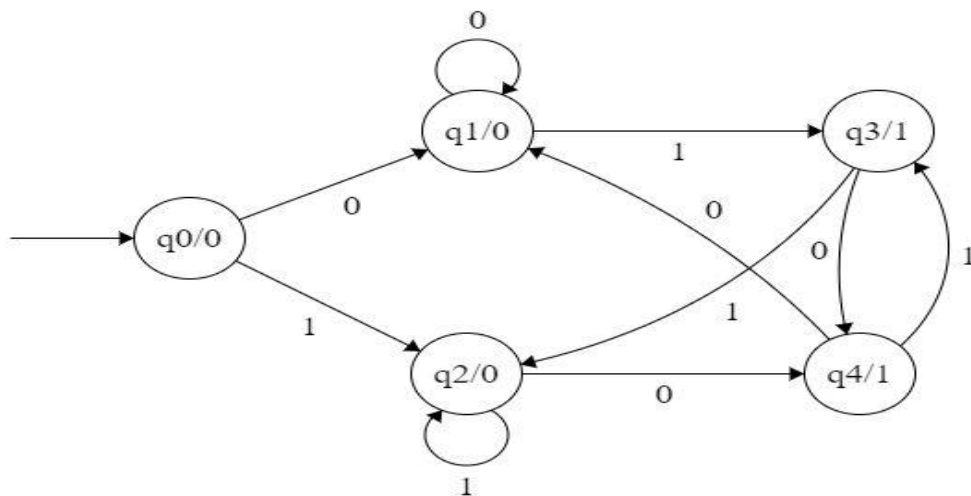1. Convert Mealy to Moore Machine:

2. Convert Moore to Mealy Machine:

3. Design MAX Heap : 10, 5, 3, 2, 4,11,4,35,2,46,92,15,9,16.
4. Design B-Tree: 5,3,21,9,13,22,7,10,11,14,8,16.[order-3]
5. Design B-Tree: 15,13,21,91,135,22,17,10,111,104,80,16.[order-4]
6. Design BST : 45, 15, 79, 90, 10, 55, 12, 20, 50.
7. Design the tree:

   Postorder Traversal : 30 , 20 , 10 , 15 , 25 , 23 , 39 , 35 , 42

   Inorder Traversal : 10 , 15 , 20 , 23 , 25 , 30 , 35 , 39 , 42

8. Use BFS and DFS to Solve