

M-ARY TREES : Guided Exercises

1. Recall the abstract machine defined on M-ary trees and write traversal algorithms for M-ary trees.
2. Discuss the transformation of M-ary trees into binary trees and provide the necessary algorithms for this transformation.
3. Discuss the transformation of forests (collections of M-ary trees) into a binary tree and provide the necessary algorithms for this transformation.
4. Retrieve the insert and delete algorithms for a Top-Down M-ary search tree. The delete algorithms must preserve the Top-Down property.
5. Retrieve the deletion algorithm for a 2-4 tree.
6. Retrieve the search and insertion algorithms for a 2-3 tree.