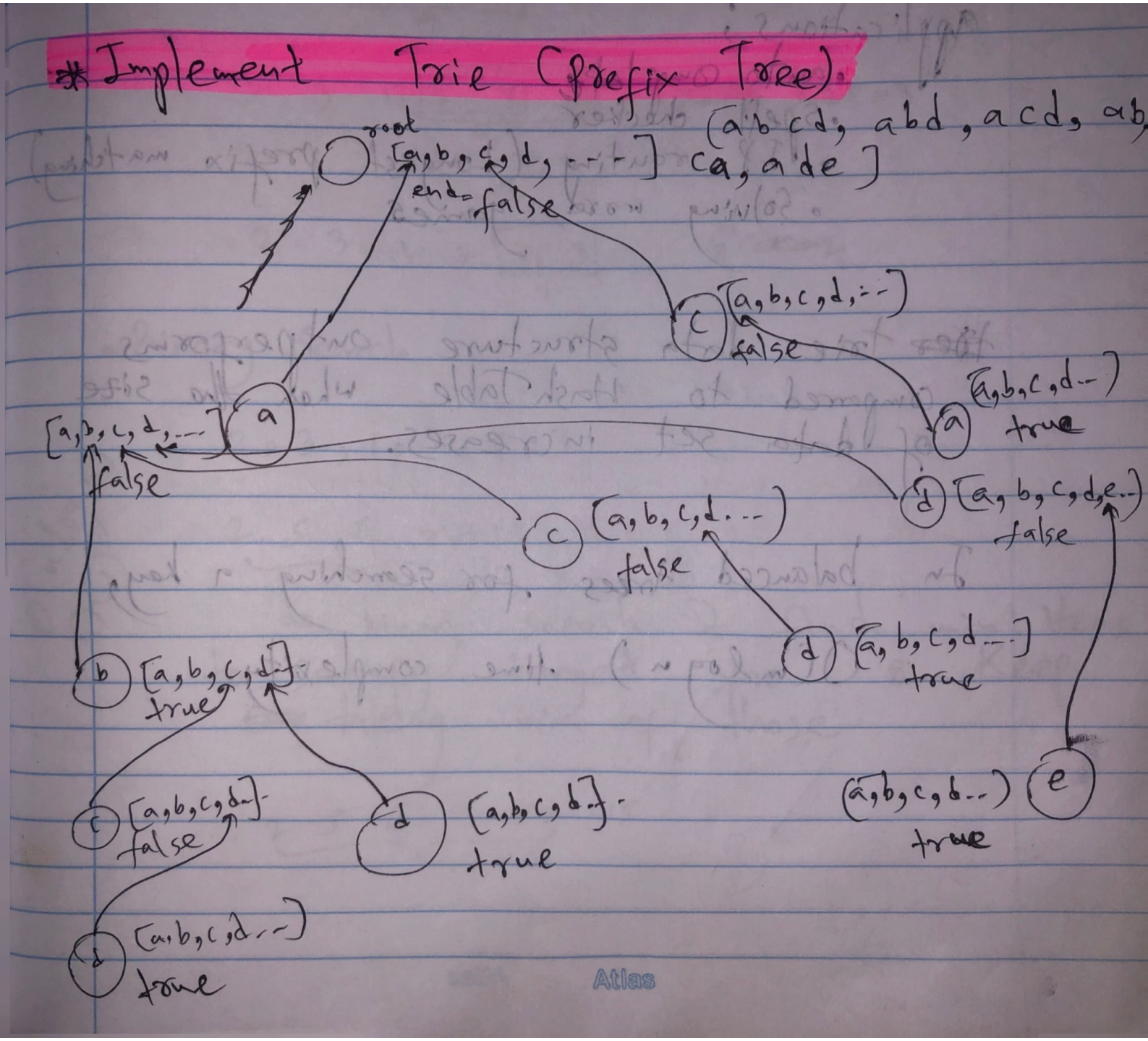
* Implement Trie (prefix Tree).



No: _____ Date: __/__/____

key insertion to trie → O(m) time
m - key length
O(m) space

Search for a key → O(m) time
O(1) space

Search for a prefix → O(m)
O(1)

applications;
- auto complete
- Spell checker
- IP routing (Longest prefix matching)
- Solving word games

trie data structure outperforms compared to Hash Table when the size of data set increases.

In balanced trees for searching a key, O(m log n) time complexity.