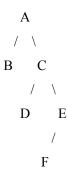
EL9343 Homework 6

(Due Oct 25th, 2021)

No late assignments accepted

All problem/exercise numbers are for the third edition of CLRS text book

- 1. Demonstrate what happens when we insert the keys 26, 10, 20, 39, 2, 35, 19, 8, 22, 5 into a hash table with collisions resolved by chaining. Let the table have 9 slots, and let the hash function be $h(k) = k \mod 9$.
- 2. Exercise 11.2-1 in CLRS Textbook.
- 3. For the set of {2, 3, 8, 10, 16, 17, 22} of keys, draw binary search trees of heights 2, 3, 4, 5, and 6.
- 4. For the following binary search tree, show the result of following operations (Please follow the algorithm from the lecture/textbook):



- a) Delete B;
- b) Delete C from the result of a);
- c) Delete A from the result of b);
- d) Delete A from the original tree.