1-

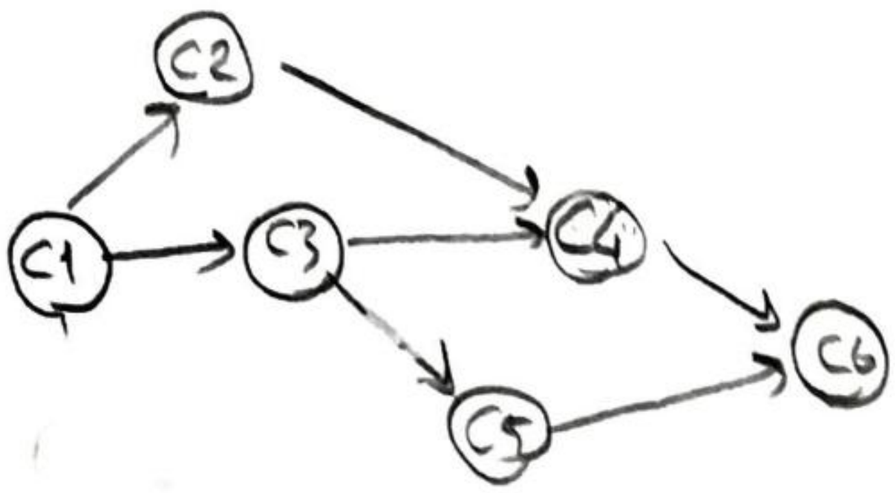
Berke Begin
BB

```
public AVLTree(ArrayList<T> arr) {
        construct(0, arr.size());
}

private void construct(int start, int end, ArrayList<T> arr) {
if(start == end) return;
insert(arr[(start + end) / 2]);
construct(start, (start + end) / 2);
construct(((start + end) / 2) + 1, end);
}
```

2-

a)



b)

(C1) (C1→C2) → (C1→C3)
(C2) (C2→C4)
(C3) (C3→C4) → (C3→C5)
(C4) (C4→C6)
(C5) (C5→C6)

c)

Discovery: [C1, C2, C4, C6, C3, C5]

Finish: [C6, C4, C2, C5, C3, C1]

Disc: (C1→C2) → (C2→C4) → (C4→C6) x
(C1→C3) → (C3→C5)

Finish: (C1→C2) → (C2→C4) → (C4→C6) → x
(C1→C3) → (C3→C5) → x

Scanned by TapScanner