<sup>i</sup>Name: Corn Daveat

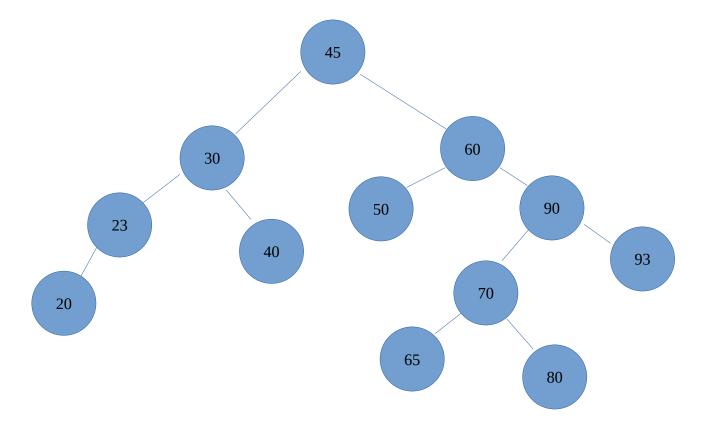
Class: M3

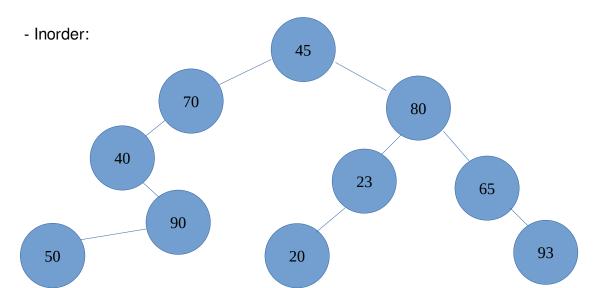
## Exam

III.

A. Binary Tree

- Preorder





b.

## Preorder:

45   30   60   23   40   50   90   20   70   93   65   80
-----------------------------------------------------------

## Inorder:

45	70	80	40	23	65	50	90	20	93	30	60

```
c. សរសេរ Algorithm
```

```
struct Node* newNode(int data){
    struct Node* node = (struct node*)malloc(sizeof (struct Node));
    node→data = data;
    node→left = NULL;
    node→right = NULL;
    return node;
}
```

## II. Linked List:

d.

1.

```
a. void search(struct Node* employee){
    struct Node* ptr;
    for (ptr = front; ptr != NULL; ptr = ptr→next){
        if (ptr→salary < 120){</pre>
```

```
ptr→salary = (ptr→salary * 15) / 100;
             }
       }
 }
 b.
 struct Node* insert (struct Node* nodeP, struct Node* nodePtr){
       if (head == NULL){
             head = nodeP;
             head→next = NULL;
             nodePtr = head;
       } else {
             nodeP→next = NULL;
             nodePtr→next = nodeP;
             nodePtr = nodePtr→next;
       }
       return tmp;
 }
 2. a.គូស Link List
                                                                  NULL
                                                     40
                                                          K
                                              45
                                       Ε
                              23
  20
           Η
                  30
                         В
Head
```

b. C programming សម្ដែងអោយ Available node:

D

```
struct Node* availableNode (){
    while(head != NULL){
        printf("Info %d\n", head→info);
        head = head→next;
    }
}

I.

a). បង្កើតជា Adjacency Matrix សម្រាប់ Graph
    + A ->B->D
```

H->F->D->B