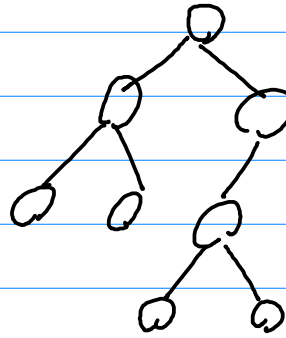
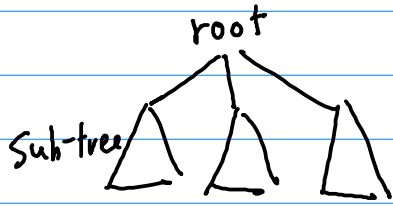
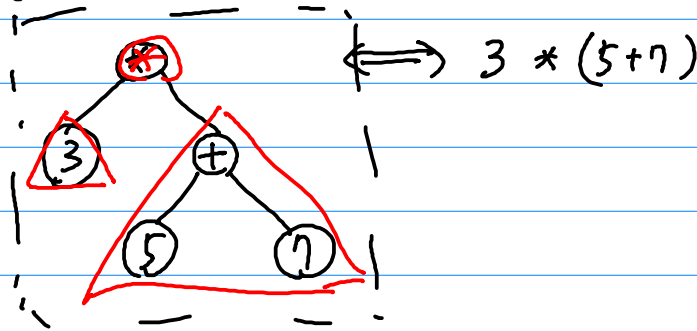


# Tree



binary tree

\* expression tree  
(binary)



1. infix     3 \* (5+7)

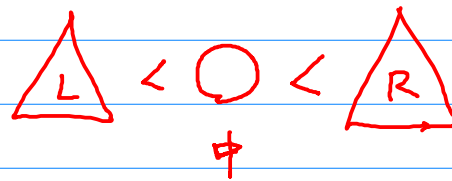
2. 3 5 7 + \*     postfix  
                  12

print infix expression that corresponds to T

prefix  
(\* 3 (+ 5 7))  
mul(3, plus(5, 7))

```
InfixPrint(T){
  //stopping
  if (isLeaf(T))
    print(T.data) //operand
  else{
    //recursion
    print("(")
    InfixPrint(T.left)
    print(" ")
    print(T.data) //operator
    print(" ")
    InfixPrint(T.right)
    print(")")
  }
}
```

LISP



inorder traversal

(3)\*((5)+(7))



```
PostfixPrint(T){
  //stopping
  if (isLeaf(T))
    print(T.data) //operand
  else{
    //recursion
    PostfixPrint(T.left)
    PostfixPrint(T.right)
    print(T.data) //operator
  }
}
```

post order traversal

