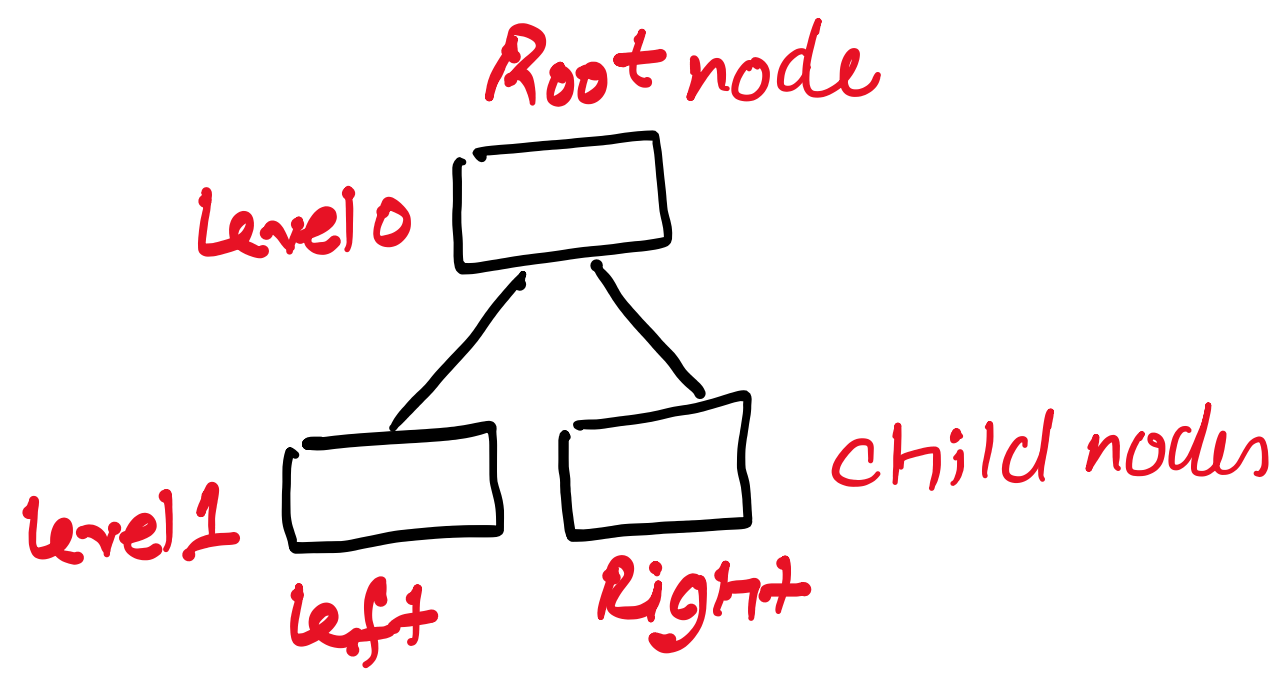
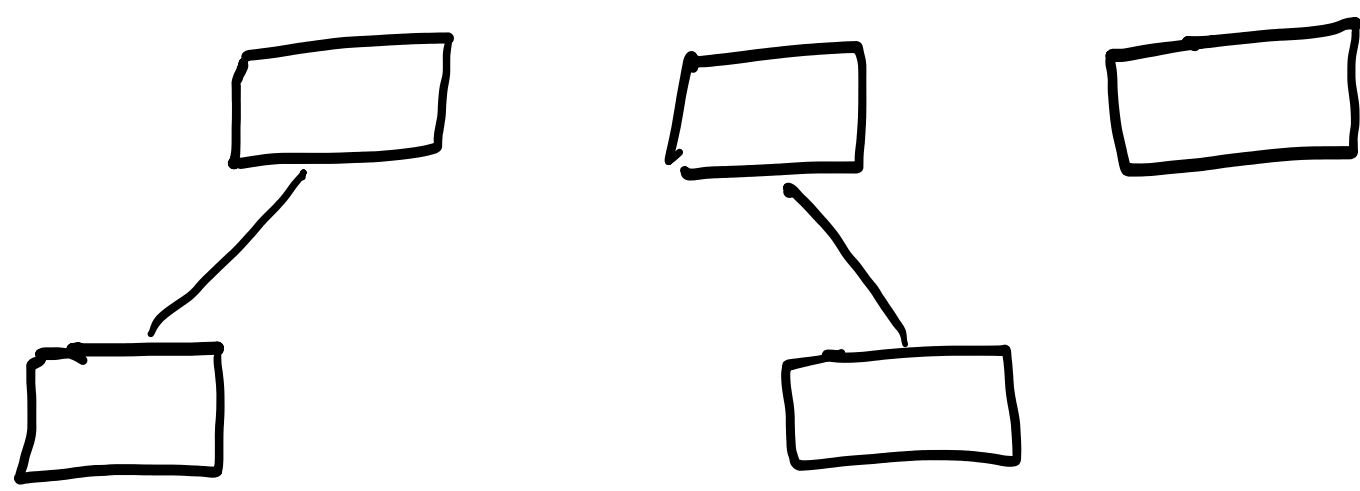
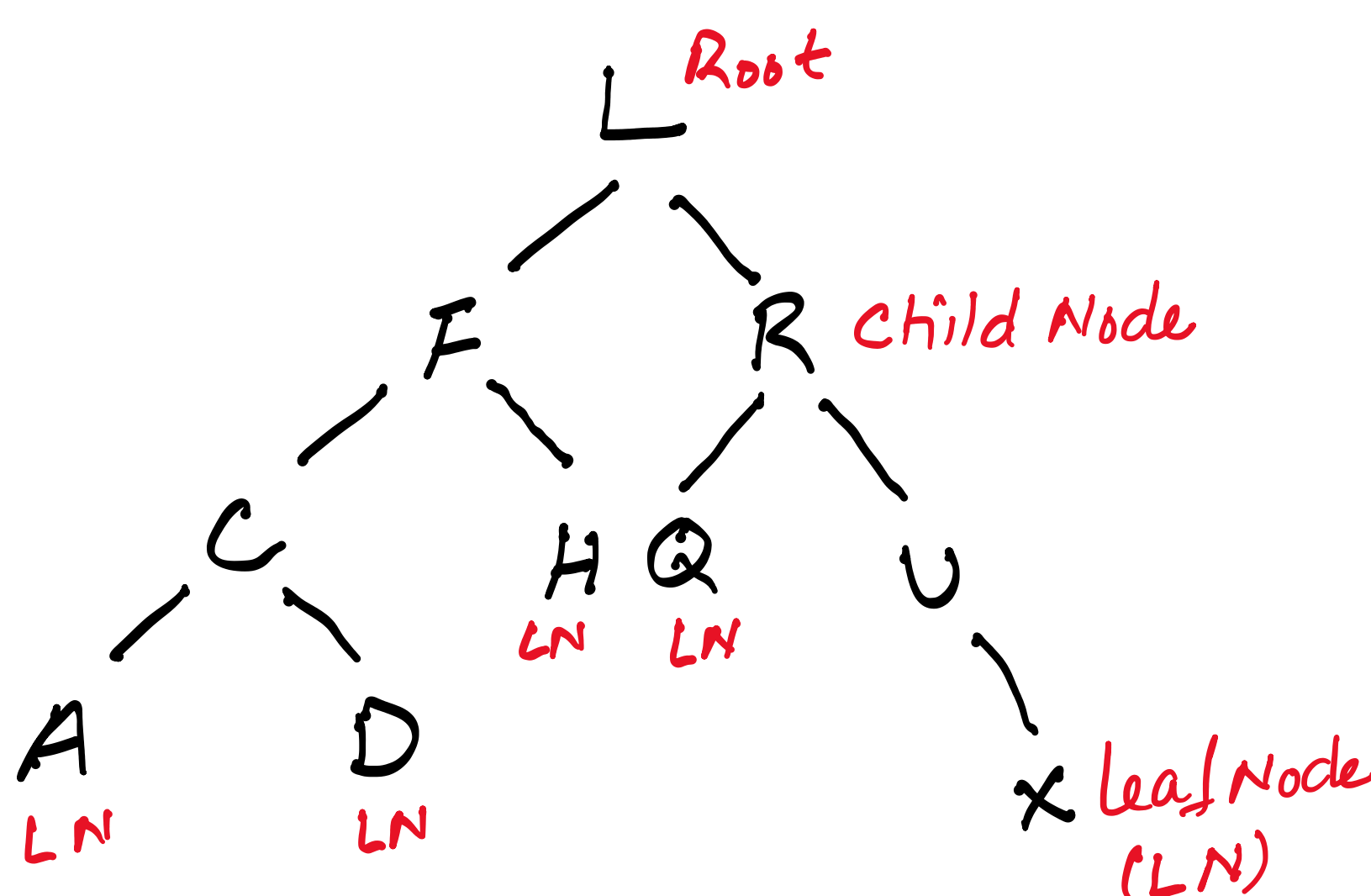


Binary
2



Insert

L, F, R, C, U, A, X, H, D, Q



Insert

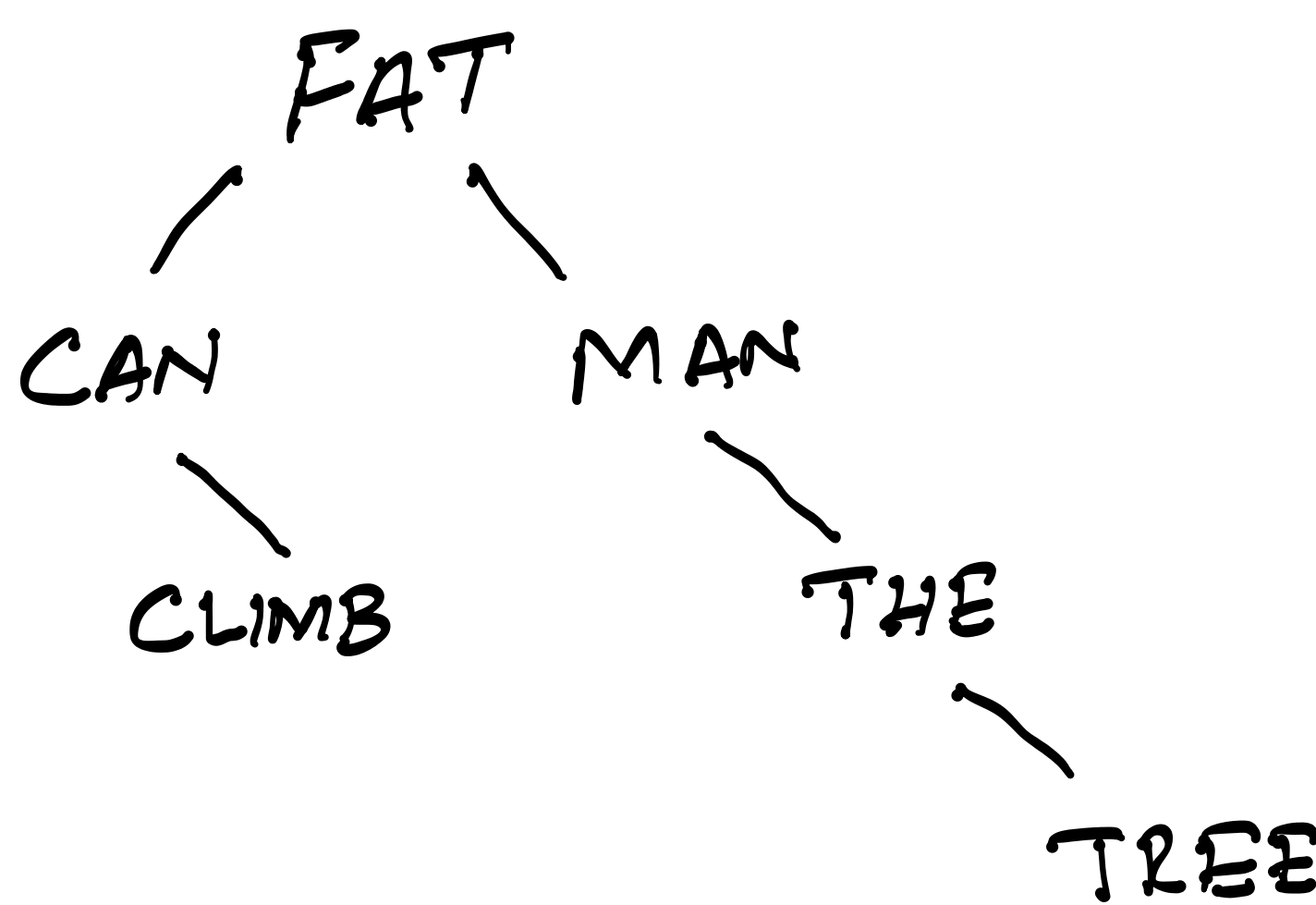
INPUT DATA
GOTO ROOT

IF ROOT = NULL
THEN
CREATE NODE
INSERT DATA
END
ENDIF

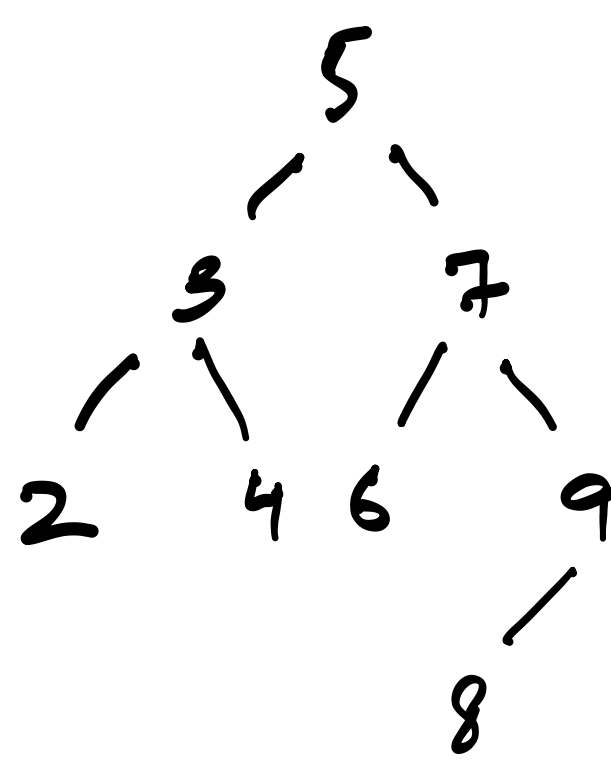
WHILE (NODE <> NULL)
COMPARE WITH NODE
IF LESS THEN GOTO LEFT
IF GREATER THEN GOTO RIGHT
ENDWHILE

CREATE NODE
ENTER DATA
END

FAT MAN CAN CLIMB THE TREE.



5, 3, 7, 9, 2, 6, 8, 4



SEARCHING BT.

INPUT DATA.

IsFound ← FALSE

GOTO ROOT

IF ROOT = NULL
THEN
OUTPUT "NOT FOUND"

ELSE
WHILE (NODE.DATA
<> DATA
AND
IsFound = FALSE
AND NODE <> NULL)

COMPARE DATA
WITH NODE.DATA
IF LESS GOTO LEFT
IF GREATER GOTO RIGHT

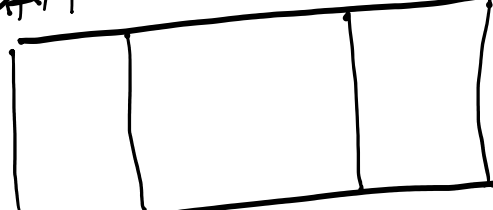
IF NODE.DATA = DATA
THEN
IsFound = TRUE
ENDIF

ENDWHILE

IF IsFound = TRUE
THEN
OUTPUT "FOUND"

ELSE
OUTPUT "NOT FOUND"
ENDIF

LeftP Data RightP



TYPE BinNode

DECLARE LP : INT

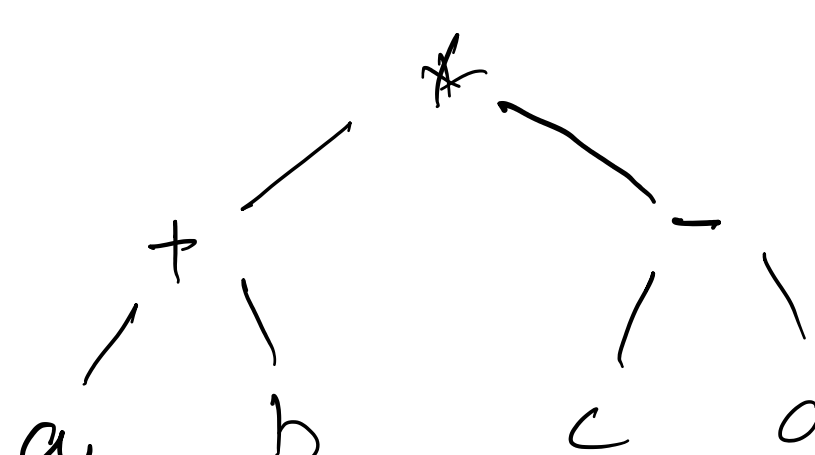
DECLARE Data : STR

DECLARE RP : INT

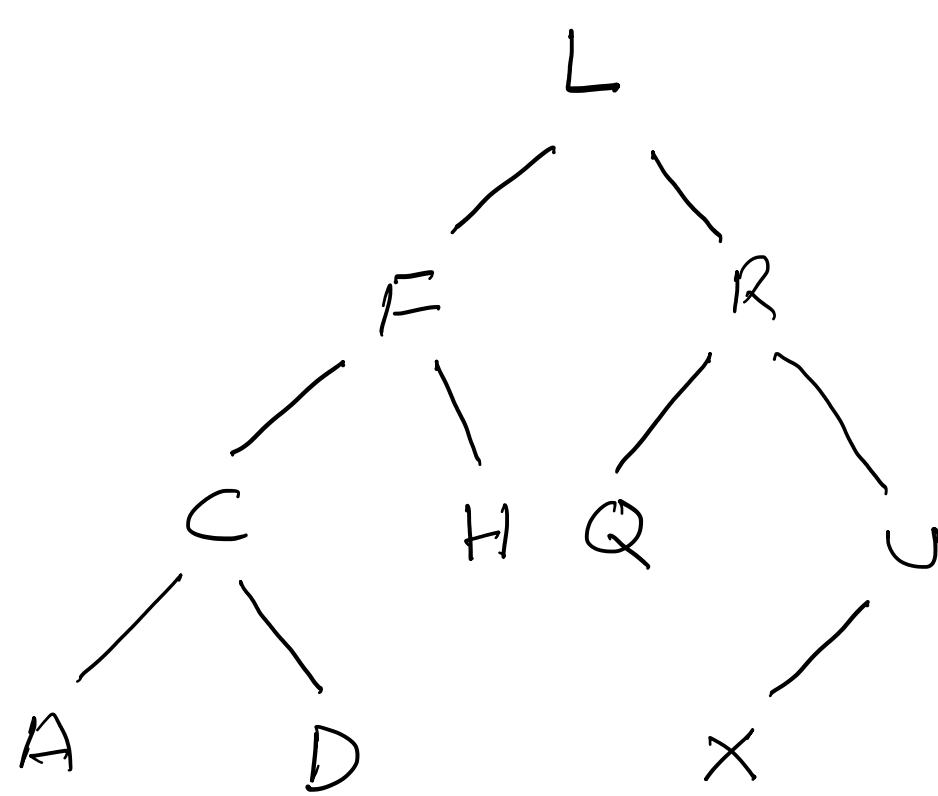
ENDTYPE

Maths. Expressions

$(a+b) * (c-d)$



L, F, R, C, U, A, X, H, D, Q



// SETUP binTree

RECORD binTree

DECLARE LeftP : INTEGER

DECLARE Data : CHARACTER

DECLARE RightP : INTEGER

END RECORD

DECLARE BT : ARRAY [0:9] OF binTree

FOR i ← 0 TO 9

BT[i].LeftP ← -1

BT[i].RightP ← -1

BT[i].Data ← "

NEXT i

CONSTANT Root ← 0

LeftP Data RightP

0	1	L	2
1	3	F	7
2	9	R	4
3	5	C	8
4	6	U	-1
5	-1	A	-1
6	-1	X	-1
7	-1	H	-1
8	-1	D	-1
9	-1	Q	-1

BT