```
        (7B)
        /    \
     (5A)    (8C)
```

1 [A]
   \
    2[B]
       \
        3 [C]
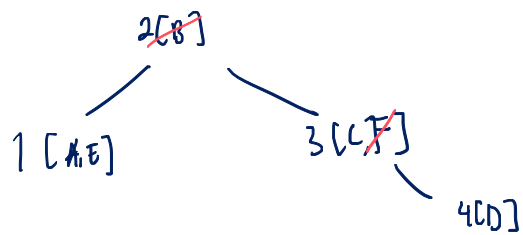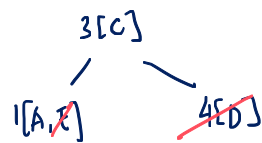
4
A 1
B 2
C 3
D 4

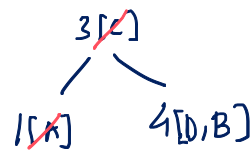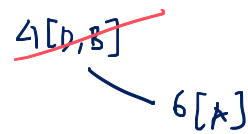MASUK   E1   → 0
  "   F3   → 3
DUO   2 3   → B F
  "   1 4   → D E
MASUK   D4   → 2
MASUK   B4   → 2
DUO   1 3   → A C
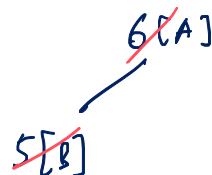MASUK   A6   → 2
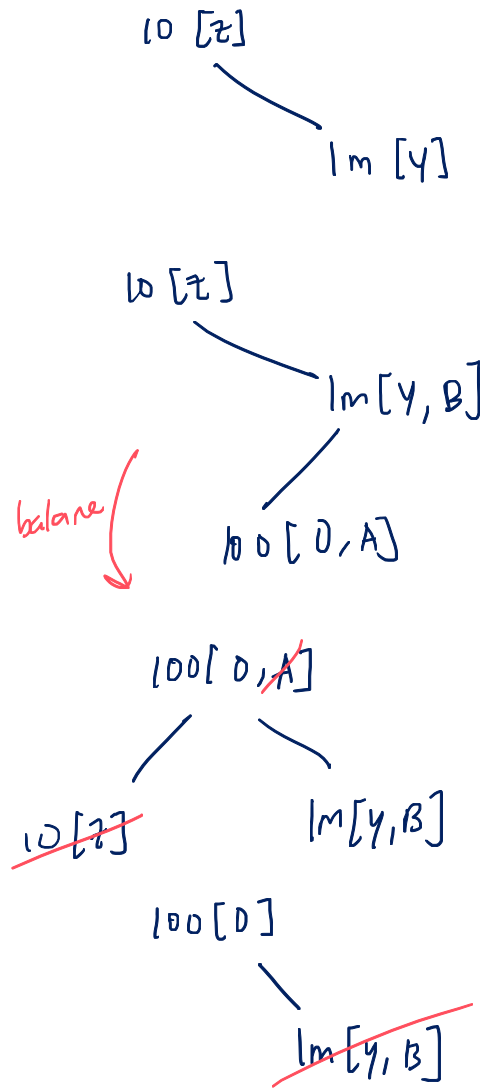DUO   4 4   → B D
DUO   6 6   → -1 -1
MASUK   B5   → 0
DUO   4 10   → A B
DUO   1 11   → -1 -1

            2̶[̶B̶]̶
           /   \
     1 [A̶,E]   3̶[̶C̶,̶F̶]̶
                      \
                       4[D]

            3[C]
           /   \
     1[A̶,E̶]   4̶[̶D̶]̶

            3̶[̶C̶]̶
           /   \
       1[A]   4[D,B]

            4̶[̶D̶,̶B̶]̶
                  \
                   6[A]

            6̶[̶A̶]̶
           /
       5[B̶]̶
```

MASUU   Z 10      → 0

MASUU   Y 1000000000 → 1

DUO     1 100    → -1  -1

MASUU   0 100 →  1

MASUU   A 100 →  1

MASUU   B 1M  → 3

DUO     10 10    → -1 -1

DUO     0  0  →  -1  -1

DUO     0  100 → A  Z

DUO     1000 1M → B  ,Y

PUO     0   1000 → -1 -1

10 [Z]
  ⟍
      1m [Y]

10 [Z]
   ⟍
       1m [Y, B]
            ⟍
            100 [0, A]

*balance*

100 [0, A]
   ╱      ⟍
~~10 [Z]~~     1M [Y, B]
       100 [0]
             ⟍
             ~~1m [Y, B]~~

10
O   18
V   65
C   50
G   60
W   32
J   47
Q   94
N   62
X   77
S   50

18 [O]
65 [V]
50 [C]
→
50 [C]
18 [O]   65 [V]
32 [W]   60 [G]
47 [J]

50 [C, S]
size=3   32 [W]
18 [O]   47 [J]
65 [V]
60 [G]   94 [Q]
62 [N]   77 [X]

DUO   8   11   → -1 -1
DUO   31   68   → V W
DUO   12   15   → -1 -1
DUO   66   89   → -1 -1
DUO   0   10   → -1 -1
DUO   9   59   → 0 S
DUO   13   59   → C J
DUO   27   37   → -1 -1
DUO   37   73   → G N
DUO   12   66   → -1 -1
DUO   50   100   → Q X
DUO   0   100   → -1 -1

50 [C, S]
32 [W]
18 [O]   47 [J]
65 [V]
60 [G]   94 [Q]
62 [N]   77 [X]

→

50 [C, S]
47 [J]   77 [X]
18 [O]   60 [G]   94 [Q]
62 [N]

62 [N]
60 [G]   77 [X]
94 [Q]

←

62 [N]
61 [C]   77 [X]
47 [J]   60 [G]   94 [Q]

77 [X]
94 [Q]

2 [A]

1 [C]    23 [D]

20 [L]    300 [E]

1201 [P]

23 [h]

2 [#]    300 [E,x]

1 [C,F]  20 [L]    1201 [P]

3 [B]    12102

10 [N]    [H]

MASVU B}  → 3
       X 3000  → 7
       H  12102 → 10

DVU    2    12...  → A  H
       380   2000  → -1  -1

5 [ c,E,L,M

2 [B,F,K,N,R,S        6 [D,Q

1 [G]        4 [O        7 [H,J,P

9 [I]

8 [T]

---

5 [C,E,L,~~M~~]

2 [B,F,K,N,R,S]        7 [H,J,P,V]

1 [G]        4 [~~O~~]        6 [D,Q]        9 [I]

8 [~~T~~]

---

DUO 3 7
DUO 3 8
DUO 6 9
DUO 8 10
DUO 8 8
DUO 3 10
DUO 3 3
DUO 1 1
DUO 3 5
DUO 1 1
DUO 5 7
DUO 4 4
DUO 5 6
DUO 1 1
DUO 1 2
DUO 1 1
DUO 3 7
DUO 1 1
DUO 4 5
DUO 5 5
DUO 1 1
DUO 1 1
DUO 1 5
DUO 1 2
DUO 4 6
DUO 6 9
DUO 1 7
DUO 2 2
DUO 5 8
DUO 2 5

60 [F]

20 [E]  70 [D]

10 [A]  40 [L]  65 [I]  85 [B]

5 [M]  15 [C]  30 [G]  50 [H]  80 [J]  90 [K]

55 [N]

DUO 30 91 → G K
DUO 41 44 → -1 -1
DUO 20 54 → E H
DUO 6 70
DUO 54 59
DUO 54 60
DUO 4 81
DUO 65 85
DUO 15 40
MASUK A 50
DUO 50 50

60 [F]

20 [E]  70 [D]

10 [A]  50 [H]  65 [I]  85 [B]

5 [M]  15 [C]  40 [L]  55 [N]  80 [J]

6[F,N,S,T,DB,EB]

4[B,Q,X,BB]          7[C,F]

3[E,H,S,M,Y]    5[G,A,R,V,X,W]    8[D,O,R,AB,CB,]

DUO 3 10
DUO 3 3
DUO 1 1
DUO 3 5
DUO 1 1
DUO 5 7
DUO 4 4
DUO 5 6
DUO 1 1
DUO 1 2
DUO 1 1
DUO 3 7
DUO 1 1
DUO 4 5
DUO 5 5
DUO 1 1
DUO 1 5
DUO 1 2
DUO 4 6
DUO 6 9
DUO 1 7
DUO 2 2
DUO 5 8
DUO 2 5
DUO 2 4
DUO 4 4
DUO 4 4
DUO 6 9
DUO 2 3

Lsize + arr.size] +

50    size

30        80

20    35    75    95

93

```
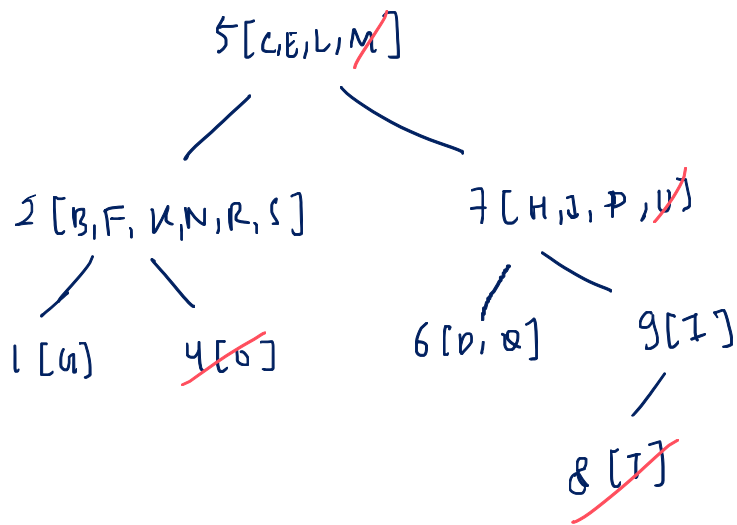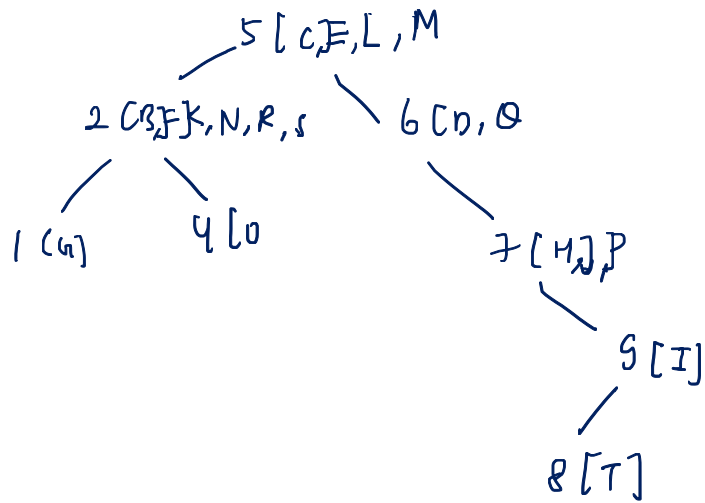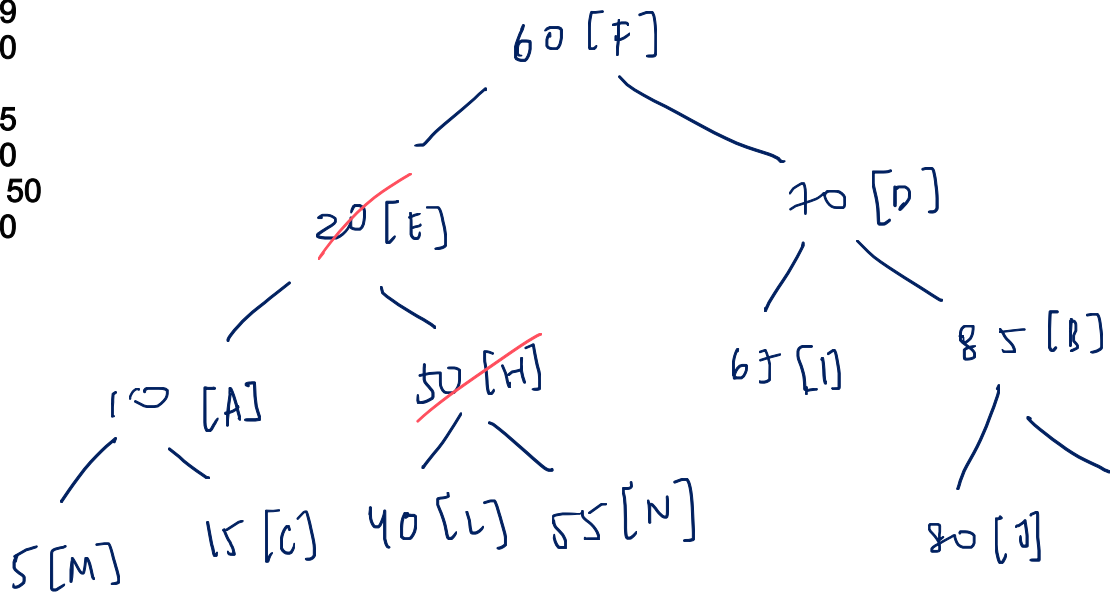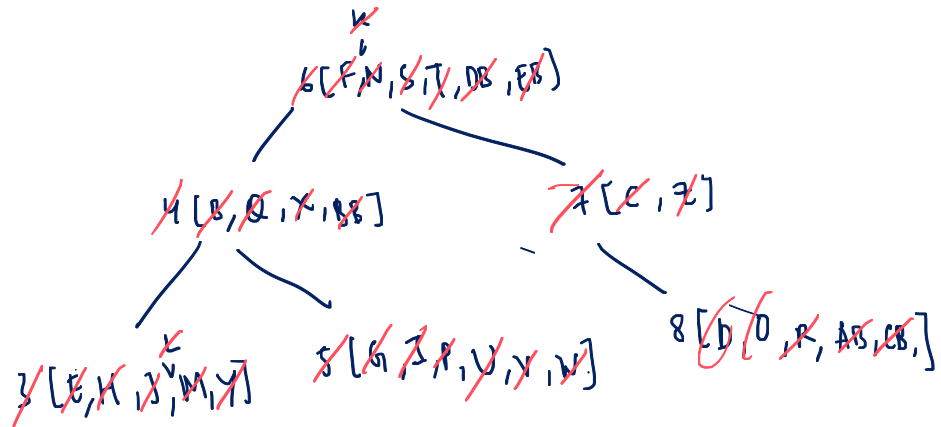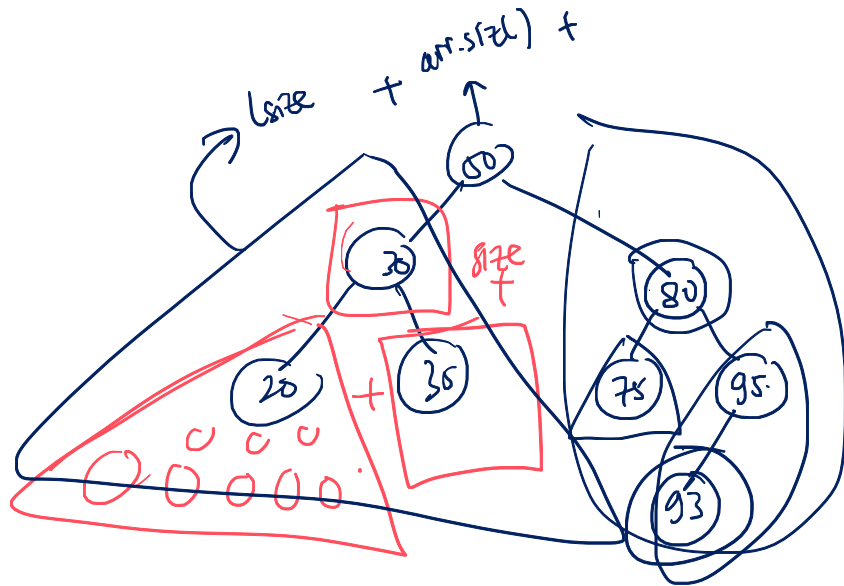countLess (node, val)  {
    If  node == null  → return null ;
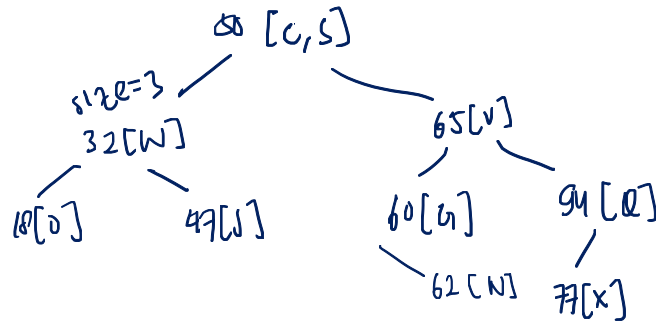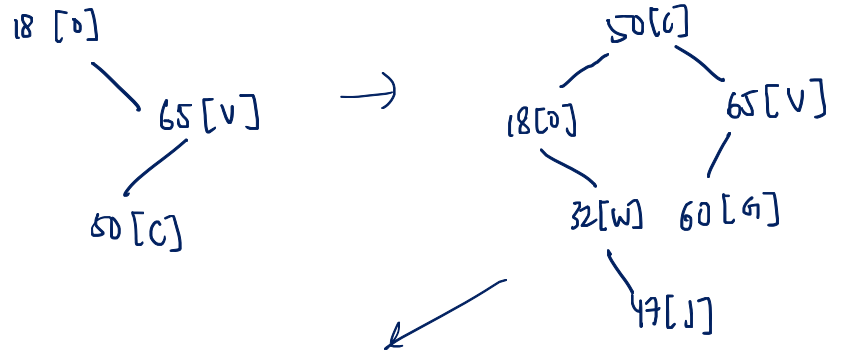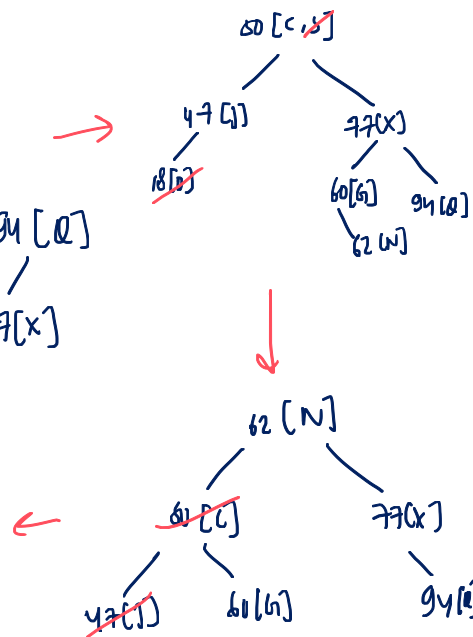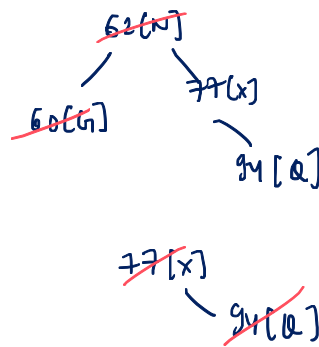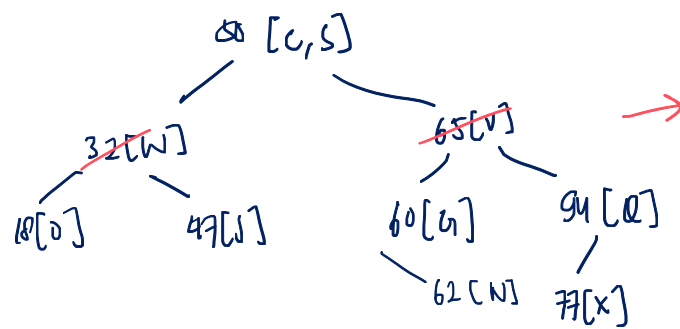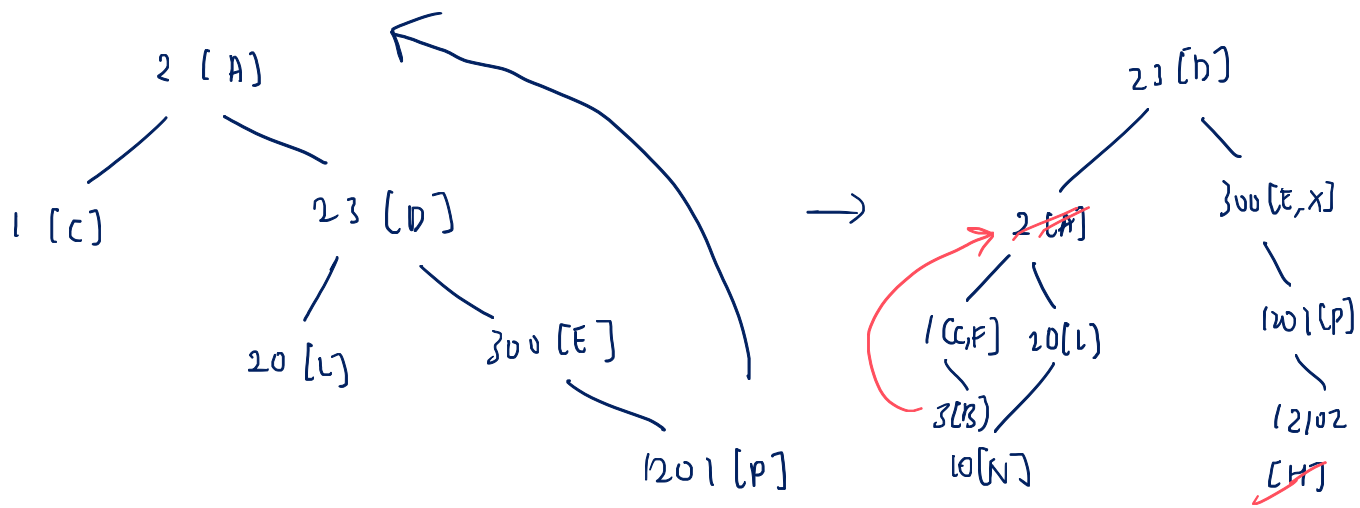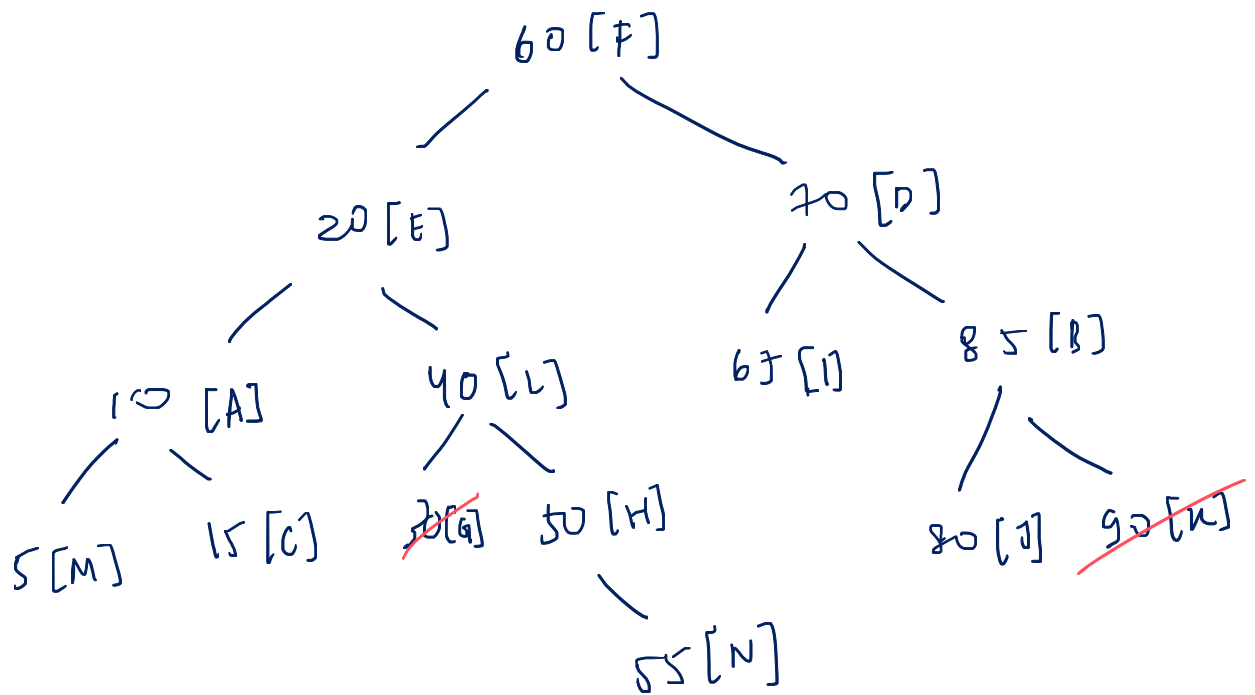
    if  val < node. key →return countLess ( node. left, val);
                                                                          node.right
    elif  val > node. key → return  node. left. size + node. curr. size() + countLess( ↓  val);

    else → return node. left. size ;

}
```