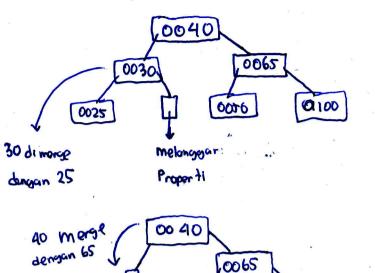
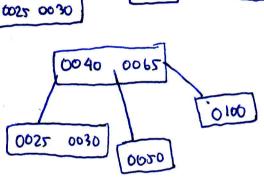


## (.4.) Delete 45 (Root)

Setelah 45 Dihapus, harona 45 root,
 Cari angka tarbezar di node kiri dan
 Jadihan root tarbaru.



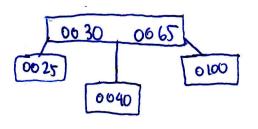


0020

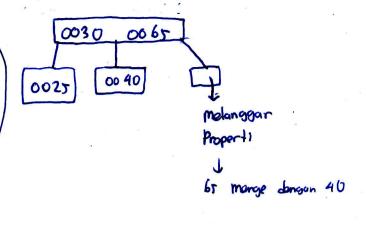
0 100

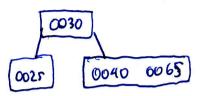
## (.5) Nelete 50

• Walaupun 50 adalah kaf, giha 50 dihapus,
Alkan molancogar proporti karena kehurangan
hey. Jadi 40 (left sibling) menggantikan
posisi aualnya 50 dan 30 menggantikan
posisi awalnya 30



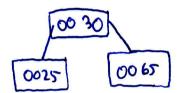




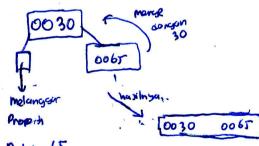


## D.2.) Pelete 40

· Wareno 40 udalah leaf dan sika 40 dihapus tidah melanossar properti , Maka proses yang tersudi adalah menghaps 40 saga







D.A.) Delete 65 · Longung happy 67 Juger

DS) Delete 30

Langung hopes 30 sam harana 30 berada
di node leaf

(losong)

```
B. - Tree - Search (x.K)
  121
 While I & x.n and h >x. key [1]
   1 = 1+dxceal, heal's
IP 1,4x.n and k == hey [1]
   return (x, i)
  FF. Axidea Pro June Colomo 14
     return not
   else Dish-Read (x.C[i])
       return B. Tree-Search (x. ([i], k)
B. Tree-Craite (T)
    x = Allocate - Node ()
     X. lear = true
     x \cdot n = 0
      Don-Write (x)
     Tirout = X
  B. Tree - Split - Child (x,i)
       7 = Allocate - Node ()
       y . x. ([i]
       2 leaf = y. leaf
        Z.n = t-1
         for j=1 to t-1
               2 key [j] = y key [j+t]
         IF NOT Y. leaf
               For j = 1 tot
                                         ro For J=x,n down to 1
                   Z .([3] = 9.([3++]
                                               X. hey [3+1] = x. key [3]
         y.n = 6 -1
                                           X hey [i]: y . hey [t]
         for j=x.n+1 down to i+1
             בנים א יבנים בי א יבנים
                                            X. n = X. n+1
          x.([i+ 1]: 7
                                           Pish - Write (4).
```

Doh - Write (x)

Pseubcode:

```
(langular Pseudorade)
B-Tree-Invet (Tih)
   r= t.root
   1fr.n== 2t-1
          5 = Allocate-Node ()
          T. 100+=5
           S. lar = False
           5.n=0
             J.C[1]zr
            B - Tree - Splitchild (1,1)
             B-Tree - Norfell (s.h)
     else B-tree-Inort-Nonfell (r.h)
 B-Tree - Insert - Non Fell (x, k)
   i= X.m.
   if X. leaf
      While 12 1 and L (x. hay [i]
           X . hay [ ; +1] = x. hay [ ]
            1 = 1 - 1
        X. Key [1+1]=K
        Xin = Xinal
        Pish-Write (x)
     else
       while 12 I and h Lx. key [i]
           1=1-1
       i=1+1
       Dish Read (x. ([i])
       IF x. ([i].n == 26-1
           B-Tree-Spit-Chid (x,i, X. C[i])
                 IF K > x, hay [i]
                     1=141
         B-Tree- Inst- NonFill (x. C[i], h)
```