```
pseudocode:
rooid inset (int k)
if got = = NULL
   ocot= new Node (t, terre);
  root -> keys [0] = K;
  root -> n = 1;
  else
   if doot → n = = 2 x t - 1
    Nøde * S = New Nøde (t, false);
    s -> c[o] = voot;
    s -> split & Child (o, oost);
    int i=0:
    if (s -> keys(o] < h)
    i++!
    S -> c[i] -> wisert not full (K);
    root 75
    else
    root → insert rotfull (k);
 woold wisert Not Full ( int k)
  cirt t=n-1
   if deal = = tome
   while i>= 0 & & keys Li J>n
   Keys [i+1] = keys [i];
   keys [i+1] = K
   n= n+1
```

else

ushile i>=0 1 l beys [i]>k

i--;

if c[i+i] -> n= 2 + t-1

splitchild (i+1, c(i+i]);

if the deys (i+i] < k

i++

c[i+i] -> inner Not Full(k);

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