CHIRANTEEVI 1BM19CS403 See 141

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Insertion

```
Void BTREE: : insert ( int k)
     of (noot== Nuce)
    DUDT = new BThurlode ( t. tru);
        2004 -> Keys [0]=K;
         200 + → n = 10
      3
  clee
 { (1-1 *€ == 1 ← +000) }
   B The Node AS= NO Brunode (+1 falle);
       S->c(0)= 200+;
        S -> Splitchild (0, 200+);
         int (=0;
         if (s -> Kups [o] < K)
        i++;
S>C[i] > insert Non Full(K);
                2007 = S;
              gusot -> insert Nonfull (k);
```

(1)

CHIRANJEEVI BTrue Mode: insert NonFull(int K) 18M19CS403 8 if (leaf = = true) while (i>=0 s.f kuys (i)>k)

E

Kuys (i++)= kuys (i); 8 Kuys [i+]=k; n=n+1; while (i>=0 de keyr[i]>K)

if (c(i+1)> n== 2*t-1)

E pli+child(i+1, c(i+1));

spli+child(i+1, c(i+1));

if (keyr(i+i) < K)

i++; else E

c [i+1] -> insert Nonfull (K);

3

luf.

word Brunde: split child (in);

E BTRENOOL Fy)

BTrue Node 12= NO.

BTRUMBOU (y > t. y > lof):

2->n; +-1;

for (int j=0;j<1-1;j++)

z > key(cj) = y > key(cj++);

if (y > loy == fales)

for (int j=0; j <4; j++)

2 → ([j] = y → ((j++);

3

y-n=+-1;

for (lot j=n; j>= i+1; j--)

CE1111=2

for (Int j=n-1; j=", j-)

kuys [j+i]= kuys cj]: kuys [i]=y > kuys [+-1]:

n = n+1;

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chy.