ADS Lab 7

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fune insut (int h).
 if noot == NUL:
      root = new B Tree Node (t);
      loot - hey To J = h;
      root - " = 1;
close:
    if (root -n == 2 * t -1):
          8 - new BTree Node (t)
          s-c[o]=root
          s - split Child (0, root)
          int i = 0;
          if (s-shey [o] ch) i++
          s-c[i] - insert None Full (h);
          root =1
     else: noot - insert Non Full (h);
  insert Non Full (int h):
    i= 11-1
    if leaf = = true:
         while (i>= o and heystid>k):
              heysli+iJ=heystiJ; i--
         heys[i+i]=h; n+=1
   close:
       while (i >= 0, and heystid > h): i--
    if ([i+1] -n == 2*6-1):
          split Child (i+1, c[i+1);
        if heystitiJck: i++
    (ti+1] → in sect Non Full (h)
```

split Unild (int i, BTree Node y): func 2 = new BTree Node (y-st, y-leaf) 2 - n = t -1 for i from 0 -st-1: z - huy [i] = y - c[i+t]; y - n = t - 1 for j from i+1 - n: clj+1] = clj] C[j+1]=2 for j from n-1 -- 1: heystj+1] = heystj] heys[i] = y - hey/[t-i] N= N+1;

Almy