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Revarth. NM
18M18CS081
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insut (int key){ \$ (most = = NULL){ nost of the noot = new Btu Noole (): NULL noot -> Keys[0] = Key; nest -> n = 1 i If good is not NULL check the elsel convent noch is full Not { (noot >n == 2*t -1) { Blier Mode *8 = new Blier Mode (); $S \rightarrow C(0) = hoot;$ s-splitchild (o, root); IJ Node is full ent i = oi Split the dild node and 91 (p > Keys[0] < K) insut in appropriate s-> c[i] -, insertation Full (K); Ey node is not full just usent at appropriate position. moot → insut NonFull (K); enseit Non Full (int K){ int i = n-1; of (leas = = time) { If current is a hap while (:>=0 4f Keys[i]>K){ node then find "exact position for key to insert Jand insert the Key at found position. . Keys [:+1] = K;

n = n+1;

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                                                        18M18CS081
        while (i>= 24 Keysti]>K)
                                             current node is not leg
         g (c[i+] -> n == 2+t-1)
                                          node then check the child
                                          node that is going to have
             Splitchild (1+1, c[i+1]);
                                          this new key and also checky if its going to a full node or
              of (Keys[iti] < K)
                                          no.
           c[i+i] > insert Notifull (K);
 Splitchild (int 9, Blee Node *y) {
               *z = new Bluewood (); j'unte a new roch
Z → n = t -1;
                                       John y to new rode z
    for (int j=0 ij< t-1; j++)
      Z-*Keys[i] = y -> Kyz [i+t];
    of (y → leay = = false)
                                         If y is not a leaf node copy
                                      J t node from y to z.
      for (int j=0 i j < tij++)
         z \rightarrow c(i) = y \rightarrow c(i+t);
    y->n= t-1;
                                                      space po new
                                      f creating a
    for(int j=n 1 j>= 1+1; j--1
                                       child.
       c (i+1) = c(i);
    C[i+i] = Zi
   for (int j= n-1; j>=i;j--)
     Keys [j+1] = Keys [j];
                                   y copy the middle key of y and increament count by 1.
   Keys[i] = y > Keys[t-1];
                                                 Revarth, NIM
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