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18M1415006

Date _____ Expt. No. Red Black Tree Page No. ... void insest lint keg Dil Node + node: new Node (& & key) Nodex y= NULL, xx= 800t's while (m) if (nodes data 2 nodata) \$ $n = n \rightarrow (eff)$ eve n= n-> 2) Lt: node spasent = 7. if 1972 root = node; eise if (node)data zy>data) y>left=node; else y-sright = node; 12 (node > pasent == NULL) } node -> color = 0; if (mode-sparent == NULL) return; fixInsex (node); void fintness (Nodex is) ? Node* U unite (K->parent > color == 1) { if (x-sparent == 1x-sparent-spight)? U= 1c > parent-sparent -> left. if (U > color == 1) + Teacher's Signature:

```
Red-Block Tree
   k = parent > (0108) =0; Hjorg Mittux
1c-> parent > (0108 =1. IBM18CS00)
    K = K - posent - spadent, I will the
36126 4
      if (K==K->parent >left) &
               K - 12 -> parent;
               sight Rotate (K);
        K >pasent > color = 0;
        12 > pasent > pasent > wood =1;
        leftestate (10-) pasent spersent);
3 pise 4
     Rea v = x -> perents pasent sout;
      id (U) color == 102
       U-> CO100 = 0:
       11-> persent > 10/08 = 0
       K-) basen+ > basen > (0102 = +.
        (c = 1c -> parent -> parent) &
     3 epel
       if (K=== 1(-> pero end -> sight) }
              1c = 1c -povent
              1eftsotateac)
       16-2 basent-2 (010250)
      12 > pasent > pasent > (0100=1)
        signt Rotate (K-> posent-> pasent);
      if (k== 800+ 1; boxeak;
```