```
Date: 1 /
 tals -5
Shut modero brande {
              int val [MAX + 1] count;
              btoce Node * link [MAX + 1);
blow Node * root = NULL)
btue Node * createNode (int val btoce Node . * child)
btrueNode * new Mode = new btrue Node;
- new Node - val [] = val;
   we Node - count = 1;
    itoor = (o) tink (o) = root;
 in word - link[1] = duid;
    rdoon vew Holl;
upid add val to Node (int val, int pos, betwee Nell. + node, betwee Node + did
  int j= und = (out)
   malie (j>pos) {

node → val [je1] = node → val [j];
 (List will - low = Cisi Ilan - wall jei)
 nose - val [jei] = val)
nose - link[jei] = drild;
  node - count + +;
```

Date: / /

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usid spirt usel (int use, int * pral, int pos, bloce wede, * node
                      bree Wed teluid, bloce Node, we new node)
             int midian j;
                (NIM < 299) f:
                       median = MIN +1,
                 * new Mode = new Lotte Node;
                j= nudiartl)
                  ulill(j<=MAx){
                   (* new Node) - nal [j- midian] = node - nal [i];
                  ( nus Node) - link ( - modia) = mod - lik ( ]
              wall - went = midian;
              (* new Node) - count = MAX - modian;
                 y ( post=MIN)}
and valTo Nede (val, poe, node, child);
          doe & add Val To Node (vol, pos-midian, * new Worke child);
             *prol = node -> val (node -> court);
            (+ neis Node) - link [0] = note - link [node - count )>
            node = court --;
         int set value Jumoole Cintual, Int * pual blove vale +mode
                        Stre Node ** child) &
               jut pos;
               $ (! wool) {
                   *pual=val;
```

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Date: / /
       * duld = NULL;
        return !
 y [nal Lucol -) wal [i])
      POS= 0
       for (pos = mode > caset; nal (node + val EposJel pos>1; pos--)
            if (nal == node - nal [pos])
                   coul LC. " Duplication not allowed";
               odarno;
  -{ (set retuen Node (val, prat, node > link ( pos), elild)) }
       of (mode - cout (MAX)}
               add Val to Node ( * puel, pos, mode, * duid)
      Jels L
        ¿ squ't rode ( * pual; pual, pos, node, * duid)
           return!
  John of
gold insulian (but red) {
          stree Mode 4 duild;
      florg = set value In Node ( use, &i, worst , a died );
        of (flug)
          root = create Node (i, child);
uoid corpy Successor (botre Node & my Node, int pos) &
         bter Nade. *dumy;
         drawny = my Node -> lik [pos];
         fool; dunny - link [o]; = NULLi)

dunny = duny > link [o];
```

Date: / /

```
blove Node *x = my Node -> link [pos-1];
    N > coul ex;
     x 7 real [x 9 court) = my Node -> real [pos];
    & + link[x+court) = my Node + link[pos] - link[o]
 x = my Node + link [pas];
  my Mode - val [1];
  xirlink[0]=x+ link[1];
    X+ Lout --;
  _ulise (j < = x → count) {
   (i) = x - val Ej -1);
    x > link [j]= x - link [jei);
usid neugoNodes (btreeNode, my Node, ut pos)
  binee Noole "x= my Noole -> link[pos] +x>=my Noole -> link

Epos-1)
   nz - conter;
  N2 > val [ x2 > court) = my Node -> ral [ pas];
  22 - UUK[42 -> count) = my Node > link[0];
  ulile (j L= XI - west) 2
        227 West + 2;
         22 - real [22 - court] = 21 - real [j);
         22 - lik [ j ] = my Node 7 lik Sjel]
   my Node - cout -- )
     for (xi),
```