Bihomial Hap

st Node & reunode (int key) Node Henry = new Node; temptala = Key; tempsolepre 20; temp > child = temp > parrent = temp > siblely = NULL. setom temp; · Node & mergeBinomalTries (Node 461, Node 462) If (b) Idala > b2 Idata) 8 wap (b1, b2); 52 > parocut = 51; 62 → 51'bling = 61 → child; b1) child = 62; 51 -> degree ++; return bl; unionBionomialHeap (list<Node no> 11) list zNode &> list < Node 10 > 12) L'ST < Node >> - new; list < Node »> : Ptercator Pt= 01. begin 17; list < Node +> : iterator ot = 12. begin (). while (14! = 11. end () Pl ot! = 12. end()) d fl((1x9t) > dyree <= (201) - dgree)

d -new.posh-back (xpt).

4 14 +4

```
- new.pvsh-back(**ot);
otff;
 unite (Pt] = 21. end(1)
  - New. pus h - back(*o+);
o+++;
 rehm _new;
list < Node #> where Atrec Inthrop (list < Node #>
                  -heap, Node & tree)
d list ( Work to > temp;
    temp. push-back (tree);
   temp = union Biomomial Heap (heap, temp);
 & rehm adjust (sempl).
Node & getmin l'ist < Node *> - heap)
    list z Node *> :: iterator it
                                  = - heap - hear begin();
    Node & temp = + Pt;
    ubile ( Pt! =-heap-end())
       ? ((Ait ) data & temp > data)
           temp = prit;
```

```
dist < node $> extract min (list < Node $)
    listerode >> now-heap, lo;
    Node stemp;
    temp = getruin (-heap);
    List < Node 1 : Plerator
    ?+ = - heap. begin();
  while (it 1 = - heap. end (1)
        if (vit) sump)
           new-heap. pish-back (10 ?+);
         itt ? ? + + + ;
    lo = renovellin Fron Tree Retum Bliap (temp);
   renchesp= nion Bronsial Heap (new treap, to);
   new heap = adjust (now heap);
  refron new heap
```