## Binomial hap;

```
Insertion in a binomial hap
```

redwin heap

4.

```
lot < node +> ment ATrecIntleap ( list < Node #1 _ hap. Node +
                                     tree).
             lut < Mode *> temp;
              temp = push -back (tree);
               'temp = unuen Bionomial Heap. (_heap, temp),
                seturn adjust (temp);
         4
             minimum Kry
> removing
 list enede *> , rumove Min From Tour retwenterp. (wode, tree)
        Lat (Node A) heap)
        Nocle +temp = toec -> child;
        Node . Alo;
        while (temp) (
                lo: temp;
                temp: temp->sibling;
                 lo >> Sibling = NULL;
                 heap , push - front (lo);
```

```
Hordran mik value noch
                                                          1BM18CSCZ
  Node * get Mis ("list Goode * > - heap)
                                                            Dharry K.
       2
                dist anode +>: iterator 11 = - heap begin()
                Node . * temp = vit;
                 while (it 1 = = = heap . end()) /
                             if ((*it) ->data x temp->data)
temp = *it;
                              it ++;
                           raturn temp;
11 seasonaugua the trap.
        <Nodi+> .adjust ( sud < Nocle + >_heap).
   4
         if (-heap. size () <=1)
                     ruturn - heap;
           lust Moder > new-heap;
           lut (Node : ): iterator . it 1, it 2, it 3;
            it 1 = it2 = it3 = - heap. begin ();
            1 (_heap-size () == 2) {
                               1t2 = it]
                               il Rtt :
                              +t3 = = heap. end();
              I else f
                         it att)
                         it 3= it 2;
                         12347
               while . (it! 1 == heap. end())
                       if ( it 2 = = = heap . end ( ) ).
```

```
IBMITS CSOSIT Dransaj (k.
else if ((*1+1) -> degree .< (+1+2) -> degree).
     it 1++;
       1ta ++;
         if ( it 31 : heap . end ( ) ).
              it 3++;
  else of ( · (+ it 1) -> degree = : · (+ t 2) -> dgree)
       woold + temp;
          . It!: morge Binomial Troop. (*H1,7H2).
            1+2 - heap , orase(it2);
             if (it 3! = : heap end()).
                    it 3++;
         return - heap,
```