```
Write-UP
                      Binomial Heap Node Moder;
     Binomial Meoup &
                insert (int value) {
public
        (Reset
                         BromalHeapNode temp = new BinomialHeapNode (value);
                if (value >0) {
                            iF( Nodes == null) {
                                      Modes = temp;
                                       Size = 1 ;
                                      Union Noder (temp);
                                       Sizert;
                               3.
          3.
                  merge (Binomial HeapMode b) ?
                       BinomialHeapNode tempi = Nodes, temp2 = b;
           Vioi d
                        cultile (temp) != not 22 temp!=not) {
                                    if (templ. degree == timp2. degree) {
                                                  Binomial HeapNode +mp = +emp2;
                                                   temp2 = temp2-sibling;
                                                    tomp. sibling = tempt. sibling;
                                                     temple sibling = tmp;
                                                     . Remp 1 = Amp-sibling;
                                           if (temp). degree * temp2. degree) {
                                                    if (templ. sibling == null | templ. sibling. deglet?
                                                             BinomialHeaphode +mp= temp2;
                                                              femp2 = temp2. sibling;
                                                               trop. Sibling = templ. sibling;
                                                              Hempl. Sibling = +mp,
                                                               templ = tmp sibling;
                                                              -Emp 1 = temp1-sibling;
                                                     Binomial Heapwode tmp = temp1;
                                                      temp? = temp2;
                                                       temp2 = temp2. Silding;
                                                         tempt sibling = temp.
                                                         If ( trip == Nodes) &
                                                                  Nodes = famp1;
                                      J .
```

```
if (temp1 == no11) {
                           Empl = No des;
                            while (temp1. sibling != noll) &
                                         temp1 = temp1. sibling;
                             templ Sibling = temp2;
        union Nodes (Binomial Heap Node
Void
                                previenp - noll, temp: Nodes, next Temp: Nodes: Sibling;
             merge (b);
                             if & semp degree != next Temp degree || next Temp sibling != noll ex
             Binomial Heaptocle
              volule (next Temp != noll) {
                                      next Temp sibling: degree = : temp degree) {
                                          prev Temp = tomp;
                                           temp = next Temp,
                                3.
                               else a
                                      if (temp key <= next Temp. key) ?
                                                    temp silling = next Temp sibling;
                                                      next Temp parent = temp;
                                                      next Temp. Sibling = temp child;
                                                        Lemp. child = next Tempi
                                                         temp-degler ++;
                                        2.
                                       else 4
                                             if (prev Temp == noll) {
                                                          Nodes = next Temp;
                                               )
                                               elde
                                                     previewp sibling = next Temp;
                                                temp povent = next Temp;
                                                 temp. sibling = next Temp.child;
                                                 next Temp. child = lenp;
                                                  next Tempodegael (+)
                                                   temp= nextTemp;
                      next temp = temp sibling;
```

```
public int find min (00 100) {
               Binonval Heap Node XQB. X = Nodes keep, y :
                 int min = n. key;
                  colvie (n!=noll) {
                              if (n. key c min) &
                    getury
        int Extract Min (int) to ?
Silduce
                 if (Abdes = = null)
                           return -1;
                  Bironial Keep Node temp: Nodes, prev Temp=noll;
                   Binomial Heap Mode min Node = Nodes. Find Min ():
                   while (temp. vey ? = min Node veg) {
                                     prev Temp: temp;
                                       femp: temp sibling;
                       if ( previewp = not) {
                                     Nodes = Jemp. sibling;
                               providing sibling = temp sibling;
                         else &
                          ) .
                          temp = temp child;
                            Binomatteapwode & f = temp,
                           while (temp 1 = noll) [
                                      Jemp. parent = noll;
                                       temp = temp-sibling;
                              if ( Nodes == null 28 f == null) {
                                           Size = 0;
                                else &
                                       of ( Nodes == noll Rd f!=noll) §
                                                   Nodes = f. revelse ();
                                                    Size = Nodes get size ();
                                          else &
                                               it ( Woder 1 = null & f = = null) {
                                                          Size = Nodes getsize();
                                                elee &
                                                       unionNodes (f. reverse ());
                                                        Size : Noder getsize();
                                     9
                                   tuturn min Node key;
                      3
```