H.S. SATHWICK KIRAN

5-B

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PSEUDO CODE &
```

```
Inval Function: Comput: local, key)
               Node * temp = new Node (key?;
               list <Node*>t;
                  t. puh-bach (leup);
                  t = union BH(-local);
                 return odjut (+);
adjut (list < Node * > hear) {
                      if (heap size <=1) hetur heap;
                      lik < Node * > nev_hap;
                      auto it; te, it 3;
                       it 1= itz= it3 = hog-begin (li
                       if (hear light) = 22) {
                                       it 2++;
                                       it 3 = heap eall);
                                        elle ?
                                             it 2++
```

it 3 = it 2;

3 while (it 1 = happed (1) {

it 3++;

```
if (it z == haded()) if 1++;
           else if (it) -dyse <it2 -> degree) {
              it 1++, i+2++;
                i} (it 31 = loop-ed()) it 3++;
 elle if (+ i+1 -> degree == it2 -> degree) {
                      Node * temp;

it 1 = mange (* it 1, * it 2);

it 2 = lary. exam (it 2);
                        if (it 3! = heap.ad()) it 3 ++;
         I else if (it 3! = hosp. earl() && it 1 > degree == It 2 -> dq'ee &
                                       il -> dgver == *it 3 -> dgree) {

*it ++, i+2++, it 3++;
}
                vetur heap;
                 Function Gretarin (list < Node * > leap ) {
                       outs it - hop begin ();
                         while (it i = hop. eal)) {
                              if (*it - oldra < texp -> data) lexp = *it;
                             基 进 ++;
```

=> lo = ren (tup);
new. heap = union &H (new. heap, b);
new. heap = ordinat (new. heap);
return new. heap;
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