```
Krathe blue. R
# Inlude < Estrom>.
                                               1BM18C8074
# Prulude (como. h)
# Pulnde < shollib.h)
 using names pale. Stol;
 # define max 10.
 hypeded smut list
 int data;
   Smut list *next;
 I node-type;
node-type *ptr[max], & root[max], & temp[max],
 class Decronary
 Public:
   Ent ender;
    Dichonary ();
    void insert (int):
    void search (Tut);
    void delale : ele (int);
 Dictionary ! Dichonary ()
    Pudex = -1;
    for (9ut 8=0; PLMax; 8++)
     2 200t [9] = NULL;
        per [1] = Noll;
        tup[e]=NULL;
 vord Dictronary 3: Puscet (Put key)
d endex = ene ( key 1/2 max);
    ptr [moder] = (node-type*) mallo c (812e of (node type));
```

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ptr [endex] -> daha = ky;
   if (soot Finder) = NULL).
                                      water to the later with
      noot [index] = ptr [index];
      next=NULL
                                        De Carter of
     temp Tendex = ptr [index];
                                         Washing to
   else.
      templinder = nootlinder
      merile (templinder) -> next = NULL)
          temp [Endex] = benp [Endex] = next;
       templinder) -> next = ptr[index];
vold Dickonary: search (int key).
    Put floy = 0
    Pudex = Put (key 7. max);
    temp Endex] = not [index];
    inhèle (temp[rudex])=NULL)
        1 (eup (rud ex) -> daha = = key).
        & cout < "In Search keyre fond!";
flag = 1
         1 brade =
        clse temp [endex] = temp[endex] -> next;
     1f (flag==0).
cont 
cont 
n search key not found--";
```

```
Void Drobonary: : delche-de (Ind key)
   Pindex = Pint (key % max);
temp[Pindex] = mot [Pindex];
      mhèle (tempfindex) -> dan != key & R tempfindex] != NULL)
     d Ptr [Pudex] = temp[index];
      E temp[rudex] -temp[rudex] -> next;
       Pto [Index] -> next = temp[index] -> next.
     cont <= " | n" << temp[sudex] -> data << " has been detected,
      templander ] -data =-1;
      tempTrudox] = NULL;
      free (temp[Endex]);
main ()
   Put val, ch, n, nun;
   charc;
                                   amail the William
    Dichonary d;
                                     Marin Harring
       cont < . " In Men. : ) n 1. (reate";
       cont < "In2. Search for a value In 3. Delete an value"
        cont T" In Enter your choice:";
        CPn >> clig
        Surtal (de).
          case 1:
             cont mantes the number of elements to be
                     inscated: 11.
             CEN >> n;
```

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cont << " In Enter the elements to be inseated:"
 Br ( at P= 0; (2n; 1++)
 1. an sommi
    dimsert (num);
   break;
 Case 2:
   coul- << " | n Enter the element to be searched: ";
    Con>>n;
    diseason(u);
    break;
  Case 3;
     cout < z" In Enter the element to be deleted: ";
      Chn >> n;
      d. delete-de (n);
      Break;
    default:
     Cont << "In Invalid choice";
      cont < in Enter y ho with me; "
    g can>xc ;
      mula (c = = "y'),
     getch (),"
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Redust