```
30 Sept 7820
                                                NIIHA
 1. Insert function:
                                                BM1805060
     void stiplist :: insert ( int tey) {
          Mode + cues = head;
           Node supdate [Maxlul +1];
           memset (update, o, size of (Node +) x (Max(ul+1));
           for ( int i = level; i > =0; i--)
            while ( cust -) forward [i] | = NULL & &
                   cure - forward [i] - key ztey)
                 duer = cur - forward [i];
               updalo[i] = cure;
          cuse = cuse - forward [o];
          if ( our = = NULL | curs -> key ! = key)
                 int sled = sandomlenel ();
                 tf ( slul > level)
                 for ( int i=level +1; icalul +1; it+)
                         update[i] = head;
                          level = slul.
              Node * newon = create Node (key, xlul);
             for ( int i=0; i = alul; i++) {
                newin -> forward [i] = update [i] -> forward[i];
                   update[i] -> forward[i]=n:
```

```
Stiplist :: delete (int tey)
Node + cuer = hood;
        * update [Maxtul +1];
memset (update, o, size of (Node +) * (MaxIul +))
 for ( int i = lew ; is = 0; i--)
    while ( wer - forward [i) ! = NULL &&
               curs -> forward[i] -> keyz key)
          Cush = cuan -> forward[i];
          update [i] = cure;
     cues = cues -> forward [o];
     if (cust = NULL & cust -> key = = key)
           for (int i=0; ic=leul; i+t)
             if (update[i] -> forward[i] = cure)
                  break;
             update [i] - forward [i] = cuer - forward[i]
   While (level >0 &x head -> forward [level] = =0)
     level --;
```

void.

M

stiplist: seasch (int tey)?

Node \* cuex = head;

for (int i = lovel; is=0; i--)

while (cuex > forward [i] |= NULL del

cuex = cuex > forward [i] -> tey < tey)

cuex = cuex -> forward [i];

cuex = cuex -> forward [o];

if (cuex! = NULL . &x cuex -> tey = = tey)

cout <<" found:" << tey < tex < cuel;

S;

Void