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(1) Begin
  Declare Function Remove (int )
     int hash-val = HashFunc(k)
     while (hash_val!= init and (ht[hash_val] == DelNode:: getNode()
           or ht[hash_val]!= NULL and ht[hash_val]→k!=k)).
        if(init==-1)
          Init=hash_val
        hash_val = HashFunc (hash_val)
  if (hash_val != init && ht[hash_val]!= NULL)
     delete ht[hash_val]
     ht[hash_val]=DelNode::getNode()
End.
```

(2) Assume hash(x)=hash(y)=hash(Z)= $\lambda$ . And assume X was inserted first, then y and then Z. In open addressing: table [i]=x. table [i+1]=y. table [i+2]=z. Now, assume you want to delete X. and set it back to NULL. When later you will search for Z. you will find that hash (Z)=i and table [i]=NULL. and you will return a wrong answer. Z is not in the table. To overcome this, you need to set table [1] with a special marker indicating to the search function to keep looking at Index (141) because there might be element there which its hash is also is (3) This is a method for resolving collisions and trying to find another open slot to hold the item that caused the collision. (4) An element of key k hashes to slot h(k). Compute h(k) to determine which list to traverse.

If ht[h(k)] contains a null pointer, initiatize this entry to point to a linked list that contains k alone. If ht[h(k)] is a non-empty list, we add k at the beginning of this list.