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Batch: B Question: 1

```
//pseudocode for hash_func_h(w,n)
Int len;
Int word=0;
Int index
len=strlen(w)
if(len==1){
word=w[0];
index=(2*w)%
Else{
word=w[0]+w[1]+w[len-1]+w[len];
index=(word/len)%n
Return index
//pseudocode for hash func g(w,n)
Int len;
Int word=0;
Int index;
len=strlen(w)
for(int i=0;i<=len;i++){
 word=word+w[i];
index=(word/len)%n
Return index
```

```
//pseudocode for calculating linked list length(H[i].head)
if(H[i].head==NULL) return 0
Else{
Int k=0;
Struct node* temp;
temp=H[i].head;
while(temp->next node!=NULL){
k=k+1
temp=temp->next node
Return k
//pseudocode for store_word(H,w,n)
Int k1,k2;
k1=hash func h(w,n)
k2=hash func g(w,n)
Int len chain;
Int len chain 1;
len chain=calculate linked list length(H[k1].head)
len chain 1=calculate linked list kength(H[k2].head)
if(len chain<len chain 1){
 insert in linked list(H[k1].head,w)
Else if(len chain 1<len chain) insert in linked list(H[k2].head,w)
Else if(len chain==len chain 1) insert in linked list(H[k1].head,w)
```

```
//pseudocode for hash_func_h(w,n)
Int len:
Int word=0;
Int index
len=strlen(w)
if(len==1){
word=w[0];
index=(2*w)%
Else{
word=w[0]+w[1]+w[len-1]+w[len];
index=(word/len)%n
Return index
//pseudocode for find hash1(H,w,n)
Int k1;
k1=hash_func_h(w,n)
return k1
//pseudocode for hash func g(w,n)
Int len;
Int word=0;
Int index;
len=strlen(w)
for(int i=0;i<=len;i++){
 word=word+w[i];
index=(word/len)%n
Return index
//pseudocode for find_hash2(H,w,n)
Int k2;
k2=hash func g(w,n)
return k2
```

```
//pseudocode print_linked_list(H[i].head)
if(H[i].head==NULL) print NULL
Else{
Struct node* temp;
temp=H[i].head;
while(temp!=NULL){
print("%s",temp->word)
temp=temp->next_node
printf("\n")
//pseudocode for print table(H,w,n)
for(int i=0;i<n;i++){
if(H[i].head==NULL)
printf("NULL\n")
Else{
print_linked_list(H[i].head);
}
}
```