

6/1/20

Shour Dabry

IBM19CS048

DS-LAB TEST 2

classmate

Date

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Wls

```
*typedef struct Node {  
    char name[20];  
    char usn[20];  
    struct Node* prev;  
    struct Node* next;  
} node;
```

```
void insert(node** head, char name[20],  
            char usn[20]) {
```

```
    if (*head == NULL) {  
        *head = (node*) malloc(sizeof(node));  
        (*head) → prev = NULL;  
        strcpy(node → name, name);  
        strcpy(node → usn, usn);  
        (*head) → next = NULL;  
        return;  
    }
```

```
    node* temp = *head;  
    if while (temp → next != NULL) {  
        temp = temp → next;  
    }
```

```
    node* n = malloc(sizeof(node));  
    strcpy(n → name, name);  
    strcpy(n → usn, usn);  
    n → next = NULL;  
    n → prev = temp;  
    temp → next = n;
```

```
}
```

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```
void delete (node** head, char v[20]) {  
    node* temp = *head;  
    while (temp != NULL) {  
        if (strcmp(temp->vsn, v) == 0) {  
            if (temp == *head) {  
                *head = (*head)->next;  
                *head->prev = NULL;  
            }  
            else {  
                if (temp->next == NULL) {  
                    temp->prev->next = NULL;  
                }  
                else {  
                    temp->prev->next = temp->next;  
                    temp->next->prev = temp->prev;  
                }  
                free(temp);  
            }  
            return;  
        }  
        temp = temp->next;  
    }  
}
```

```
void display() {  
void display (node* head) {  
    while (node* head != NULL) {  
        printf("%s", head->vsn,  
                head->name);  
    }  
}
```

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```
} head = head->next;  
}  
printf("%n");
```

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