

~~#include~~

```

void add-at-begin() {
    struct node *ptr = NULL;
    ptr = (struct node *) malloc(sizeof(struct node));
    printf("enter the node data:");
    scanf("%d", &ptr->data);
    ptr->prev = NULL;
    ptr->next = NULL;

    if (head == NULL) {
        head = ptr;
    }
    else {
        ptr->next = head;
        head->prev = ptr;
        head = ptr;
    }
}

```

```

void delete-at-specifiedloc() {
    int i, loc;
    if (head == NULL) {
        printf("empty list\n");
    }
    else {
        struct node *ptr = head;
        printf("enter the location:");
        scanf("%d", &loc);

        for (i = 1; i < loc; i++) {
            ptr = ptr->next;
        }
    }
}

```

```
ptr → prev → next = ptr → next;  
ptr → next → prev = ptr → prev;  
free(ptr);  
}
```

```
void display() {
```

```
if (head == NULL) {  
    printf("empty");  
}
```

```
else {
```

```
    struct node *temp = head;
```

```
    while(temp != NULL) {
```

```
        printf("%d\t", temp->data);
```

```
        temp = temp->next;
```

```
    }  
    printf("\n");
```

```
}
```