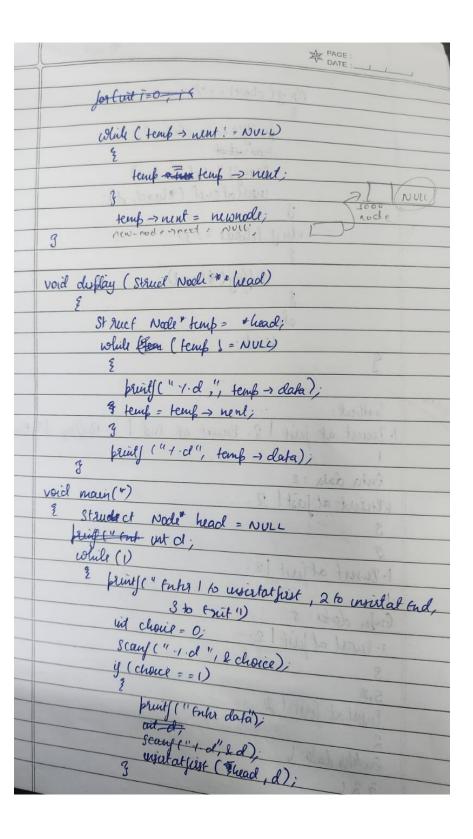
```
// Implementation of singly linked list
#include <stdio.h>
#include <stdlib.h>
struct Node {
    int data;
    struct Node* next;
};
struct Node* createNode(int data) {
    struct Node* newNode = (struct Node*) malloc(sizeof(struct Node));
    newNode->data = data;
    newNode->next = NULL;
    return newNode;
void insertAtFirst(struct Node** head, int data) {
    struct Node* newNode = createNode(data);
    newNode->next = *head;
    *head = newNode;
void insertAtEnd(struct Node** head, int data) {
    struct Node* newNode = createNode(data);
    if (*head == NULL) {
        *head = newNode;
    } else {
        struct Node* temp = *head;
        while (temp->next != NULL) {
            temp = temp->next;
        temp->next = newNode;
void display(struct Node* head) {
    struct Node* temp = head;
    while (temp != NULL) {
        printf("%d ", temp->data);
        temp = temp->next;
    printf("\n");
int main() {
```

```
struct Node* head = NULL;
    int choice, data;
    while (1) {
        printf("Enter 1 to insert at the beginning, 2 to insert at the end, 3 to
display, 4 to exit: ");
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                printf("Enter data: ");
                scanf("%d", &data);
                insertAtFirst(&head, data);
                break;
            case 2:
                printf("Enter data: ");
                scanf("%d", &data);
                insertAtEnd(&head, data);
                break;
            case 3:
                display(head);
                break;
            case 4:
                exit(0);
            default:
                printf("Invalid choice\n");
    return 0;
```

## Output:

```
soft-MlEngine-In-Jx35qvib.upz --stdout=Microsoft-MlEngine-Out-ofm53irc.ri4 --stderr=Microsoft 3hd5yswm.552 --dbgExe=C:\\msys64\\ucrt64\\bin\\gdb.exe --interpreter=mi
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 1
Enter data: 2
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 3
2
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 1
Enter data: 5
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 3
5 2
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 2
Enter data: 6
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 3
5 2
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 1
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 1
Enter 1 to insert at the beginning, 2 to insert at the end, 3 to display, 4 to exit: 1
```



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