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main.c

```c
#include <stdio.h>
#include <stdlib.h>

struct Node *f = NULL;
struct Node *r = NULL;

struct Node
{
    int data;
    struct Node *next;
};

void linkedListTraversal(struct Node *ptr)
{
    printf("Printing the elements of this linked list\n");
    while (ptr != NULL)
    {
        printf("Element: %d\n", ptr->data);
        ptr = ptr->next;
    }
}

void enqueue(int val)
{
    struct Node *n = (struct Node *) malloc(sizeof(struct Node));
    if(n==NULL){
        printf("Queue is Full");
    }
    else{
        n->data = val;
        n->next = NULL;
        if(f==NULL){
            f=r=n;
        }

        else{
            r->next = n;
            r=n;

        }
    }
}

int dequeue()
{
    int val = -1;
    struct Node *ptr = f;
    if(f==NULL){
```

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main.c

```c
    int val = -1;
    struct Node *ptr = f;
    if(f==NULL){
        printf("Queue is Empty\n");
    }
    else{
        f = f->next;
        val = ptr->data;
        free(ptr);
    }
    return val;
}

int main()
{
    enqueue(34);
    enqueue(4);
    enqueue(7);
    enqueue(17);
    printf("Dequeuing element %d\n", dequeue());
    printf("Dequeuing element %d\n", dequeue());

    linkedListTraversal(f);
    return 0;
}
```

input

```
Dequeuing element 34
Dequeuing element 4
Printing the elements of this linked list
Element: 7
Element: 17


...Program finished with exit code 0
Press ENTER to exit console.
```