

postfix evaluation.c X linear que.c X

```
#include <stdio.h>
#include <stdlib.h>
#define MAX 5

int front=0;
int rear=-1;

int queue[MAX];

void Enqueue(int);
int Dequeue();
void display();
int main(int argc, char **argv)
{
    int option;
    int item;
    do{
        printf("\n 1. Insert to Queue (EnQueue)");
        printf("\n 2. delete from the Queue (DeQueue)");
        printf("\n 3. Display the content ");
        printf("\n 4. Exit\n");
        printf("Enter the option :");
        scanf("%d",&option);
        switch(option)
        {
            case 1: printf("Enter the element:\n");
                    scanf("%d",&item);
                    Enqueue(item);
                    break;
            case 2: item=Dequeue();
                    if(item== -1)

```


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```
        case 2: item=Deque();
                if(item==-1)
                    printf("Queue is empty\n");
                else
                    printf("Removed element from the queue %d",item);
                break;
        case 3: display();
                break;
        case 4: exit(0);
    }
} while (option!=4);
return 0;
```

void Enqueue(int ele)

```
{
    if (rear==MAX-1)
        printf("Queue is full\n");
    else
    {
        rear++;
        queue[rear]=ele;
    }
}
```

int Dequeue()

```
int item;
if(front == -1)
    return -1;
else
```



```
int item;
if(front == -1)
    return -1;
else
{
    item=queue[front];
    front++;
    if(front>rear)
    {
        front=-1;
        rear=-1;
    }
    return item;
}
```

```
void display()
```

```
{
    int i;
    if(front==-1)
        printf("Queue is empty\n");
    else
    {
        printf("\n Queue contents:");
        for(i=front;i<=rear;i++)
            printf("%d", queue[i]);
    }
}
```