

```
#include <stdio.h>
#include <conio.h>
#include <process.h>
#define QUE_SIZE 3
```

```
int item, front = 0, rear = -1, q[QUE_SIZE], count = 0;
```

```
void insertrear() {
    if (count == QUE_SIZE) {
        printf("QUEUE OVERFLOW");
        return;
    }
    rear = (rear + 1) % QUE_SIZE;
    q[rear] = item;
    count++;
}
```

```
{
void deletefront() {
    if (count == 0) return -1;
    item = q[front];
    front = (front + 1) % QUE_SIZE;
    count--;
    return item;
}
```

```
{
void display() {
    if (count == 0) {
        printf("QUEUE is empty");
        return;
    }
    printf("contents of QUEUE are \n");
    for (int i = 1; i <= count; i++) {
        printf("%d \n", q[front]);
        front = (front + 1) % QUE_SIZE;
    }
}
```

```
{
void main() {
    int choice;
    for(;;) {
        printf("\n 1: Insertrear  \n 2: Delete  \n 3: Display  \n 4: exit \n");
        printf("Enter ur choice \n");
        scanf("%d", &choice \n);
    }
}
```

Switch (choice) {

case 1 : printf ("Enter item to be inserted");
scanf ("%d", &item);
insertrear();

break;

case 2 : item = deletefront();

if (item == -1) {

printf ("Queue is empty");

else

printf ("Item Deleted = %d\n", item);

break;

case 3 : display();

break;

default : exit(0);

}

}

}