

```

#include <stdio.h>
#include <conio.h>
#include <stdlib.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\n");
        return;
    }
    rear = (rear + 1) % QUE_SIZE;
    q[rear] = item;
    count++;
}

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

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

```

void main()

{
int choice;

for(;;)

{

printf("In 1: insertrear In 2: deletefront In 3: display
In 4: exit\n");

printf("Enter the choice\n");

scanf("%d", &choice);

switch(choice)

{

case 1: printf("Enter the item to be inserted\n");

scanf("%d", &item);

insertrear();

break;

case 2: item = deletefront();

if(item == -1)

printf("Queue is empty\n");

else

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

break;

case 3: displayQ();

break;

case 4: exit(0);

break;

default: printf("Invalid choice\n");

}

}

}