

**Code:**

```
#include<stdio.h>
int q[100],front=0,rear=-1,size,op,n,i;
void insert();
void delete();
void display();
void main(){
    printf("Enter size of queue:");
    scanf("%d",&size);
    do{
        printf("Menu\n1.Insert\t2.Delete\t3.Display\t4.Exit\nEnter operation to perform:");
        scanf("%d",&op);
        switch(op){
            case 1: insert();
                    break;
            case 2: delete();
                    break;
            case 3: display();
                    break;
            case 4: break;
            default:printf("Invalid Input\n");
        }
    }while(op!=4);
}
void insert(){
    if((rear-front)>size-2){
        printf("Queue Overflow\n");
    }else{
        printf("Enter number to insert:");
        scanf("%d",&n);
        rear++;
        q[rear]=n;
    }
}
void delete(){
    if(front==rear+1){
        printf("Queue Underflow\n");
    }else{
        printf("%d\n",q[front]);
        front++;
    }
}
void display(){
    if(front==rear+1){
        printf("Queue Underflow\n");
    }else{
        for(i=front;i<=rear;i++){
            printf("%d\n",q[i]);
        }
    }
}
```

### Output:

```
Enter size of queue:3
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:1
Enter number to insert:1
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:1
Enter number to insert:3
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:1
Enter number to insert:5
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:1
Queue Overflow
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:3
1
3
5
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:2
1
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:2
3
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:2
5
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:2
Queue Underflow
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:3
Queue Underflow
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:5
Invalid Input
Menu
1.Insert      2.Delete      3.Display      4.Exit
Enter operation to perform:4
```