



```

if(*count==0)
{
    printf("THE QUEUE IS EMPTY\n");
    return;
}
else
{
    printf("THE CONTENTS OF THE QUEUE IS= ");
    for(i=1;i<=*count;i++)
    {
        printf("%d\t",cq[*f]);
        *f=(*f+1)%n;
    }
    printf("\n");
}
}
}
int main()
{
    int c,i;
    int count=0;
    int r=-1;
    int f=0;
    int n;
    int cq[10];
    printf("ENTER THE SIZE OF QUEUE\n");
    scanf("%d",&n);
    while(i!=4)
    {
        printf("1-INSERT 2-DELETE 3-DISPLAY 4-EXIT\n");
        printf("ENTER THE CHOICE\n");
        scanf("%d",&c);
        switch(c)
        {
            case 1:
                insertrear(cq,n,&f,&r,&count);
                break:

```



```

int main()
{
    int c,i;
    int count=0;
    int r=-1;
    int f=0;
    int n;
    int cq[10];
    printf("ENTER THE SIZE OF QUEUE\n");
    scanf("%d",&n);
    while(i!=4)
    {
        printf("1-INSERT 2-DELETE 3-DISPLAY 4-EXIT\n");
        printf("ENTER THE CHOICE\n");
        scanf("%d",&c);
        switch(c)
        {
            case 1:
                insertrear(cq,n,&f,&r,&count);
                break;
            case 2:
                deletefront(cq,n,&r,&f,&count);
                break;
            case 3:
                display(cq,n,&r,&f,&count);
                break;
            case 4:
                exit(0);
            default:
                printf("INVALID CHOICE");
        }
    }
}

```

ENTER THE SIZE OF QUEUE
5
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
1
ENTER THE ITEM TO BE INSERTED
34
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
1
ENTER THE ITEM TO BE INSERTED
23
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
1
ENTER THE ITEM TO BE INSERTED
56
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
1
ENTER THE ITEM TO BE INSERTED
553
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
1
ENTER THE ITEM TO BE INSERTED
34
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE
2

circular queue.c - C:\Users\Nithin - Geany

File C:\WINDOWS\SYSTEM32\cmd.exe

New 1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE

Sym 2
THE ITEM DELETED IS =34

1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE

2
THE ITEM DELETED IS =23

1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE

3
THE CONTENTS OF THE QUEUE IS= 56 553 34

1-INSERT 2-DELETE 3-DISPLAY 4-EXIT
ENTER THE CHOICE

1
ENTER THE ITEM TO BE INSERTED

23
1-INSERT 2-DELETE 3-DISPLAY 4-EXIT

ENTER THE CHOICE

4

(program exited with code: 0)

Press any key to continue . . .