#include<stdio.h>

#include<stdlib.h>

#define MAX 5

int q[MAX],f=-1,r=-1;

void insert();

void rem();

void display();

main()

{

int ch;

do

{

printf("1.Insert\n2.Remove\n3.Display\n4.Exit\n");

printf("Enter your choice:");

scanf("%d",&ch);

switch(ch)

{

case 1:insert();

break;

case 2:rem();

break;

case 3:display();

break;

case 4:exit(0);

default: printf("invalid choice");

}

}while(ch!=4);

return(0);

}

void insert()

{

int e;

if(r==MAX-1)

{

printf("Queue is full");

return;

}

printf("Enter the element to be inserted:");

scanf("%d",&e);

r=r+1;

q[r]=e;

if(f==-1)

f=0;

}

void rem()

{

int e;

if(f==-1)

{

printf("Queue is empty");

return;

}

e=q[f];

if(f==r)

f=r=-1;

else

f=f+1;

printf("deleted element is:%d",e);

}

void display()

{

int i;

if(f==-1)

{

printf("Queue is empty");

return;

}

printf("Elements of queue are:");

for(i=f;i<=r;i++)

printf("%d",q[i]);

}