#include<stdio.h>

#include<stdlib.h>

#define size 5

int front=-1, rear=-1;

int que[size];

void Enqueue()

{

int ele;

printf("Enter the element:\n");

scanf("%d",&ele);

{

if(rear==size-1)

printf("The queue is full");

}

if(front==-1&&rear==-1)

{

front=0;

rear=0;

}

else

rear=rear+1;

que[rear]=ele;

}

void Dequeue()

{

int ele;

{

if(front==-1&&rear==-1)

printf("The queue is empty");

}

ele=que[front];

if(front==rear)

{

front=-1;

rear=-1;

}

else

front=front+1;

printf("The deleted element is %d\n",ele);

}

void display()

{

int i;

{

if(front==-1&&rear==-1)

printf("The queue is empty");

}

for(i=front;i<=rear;i++)

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

}

int main()

{

int choice;

while(1)

{

printf("\t\n MAIN MENU ");

printf("\n1.enqueue\n2.dequeue\n3.display\n4.exit");

printf("\nEnter your choice:\n");

scanf("%d",&choice);

switch(choice)

{

case 1: Enqueue();

break;

case 2: Dequeue();

break;

case 3: display();

break;

case 4: exit(0);

defult: printf("Enter the choice from 1 to 4");

}

}

return 0;

}

