	#include <stdio.h></stdio.h>
	#include <conio.h></conio.h>
	#include
	#define gsize 5
	int f=0,r=-1,ch;
	int item, q[10];
	int isfull()
	<i>{</i>
	return(r==qsize-1)?1:0;
	<u>}</u>
000000	int isempty()
	(0.10.
	return(f>r)?1:0;
	void insert_rear()
	if(isfull())
	יון (יבן אוו (/ /

<i>{</i>
printf("queue overflow\n");
return;
}
r=r+1;
q[r]=item;
}
void delete_front()
<i>{</i>
if(isempty())
<i>{</i>
printf("queue empty\n");
return;
3
printf("item deleted is %d\n",q[(f)++]);
if(f>r)
<i>f</i>
f=0;

r=-1;
}
}
void insert_front()
I
if(f!=0)
I
f=f-1;
q[f]=item;
return;
3
else if((f==0)&&(r==-1))
<i>{</i>
q[++(r)]=item;
return;
3
else
printf("insertion not

possible\n");
}
void delete_rear()
<i>{</i>
if(isempty())
<i>f</i>
printf("queue is empty\n");
return;
3
printf("item deleted is %d\n",q[(r)]);
if(f>r)
f .
f=0;
r=-1;
}
}
void display()
1

int i;
if(isempty())
1
printf("queue empty\n");
return;
}
for(i=f;i<=r;i++)
printf("%d\n",q[i]);
7
void main()
<i>f</i>
for(;;)
<i>f</i>
printf("\n ******************************
printf("1.insert_rear\n2.insert_front\n3.delete_rear\i
printf("enter choice: ");
scanf("%d",&ch);

ī

	switch(ch)
	<i>{</i>
	case 1:printf("enter the item\n");
	scanf("%d",&item);
	insert_rear();
	break;
	case 2:printf("enter the item\n");
	scanf("%d",&item);
	insert_front();
	break;
	case 3:delete_rear();
000000	break;
000000	case 4:delete_front();
00000	break;
	ease 5:display();
	break; default:exit(0);
1111111	qeravic:exit(U);

	printf("\n*****************************
	}
	}
100000	