**DELETION IN ARRAY QUEUE**

#include<iostream.h>

#include<stdlib.h>

#include<process.h>

int remove(int[]);

int insert(int[],int);

void display(int[],int,int);

constint size=50;

int queue[size],front=-1,rear=-1;

int main()

{intitem,res;

charch='y';

while(ch=='y'||ch=='Y')

{ cout<<"\n enter item for insertion:";

cin>>item;

res=insert(queue,item);

if(res==-1)

{cout<<"OVERFLOW!!!aborting!!\n";

exit(1);

}

cout<<"\n now the queue (front...to...rear )is:\n";

display(queue,front,rear);

cout<<"\n want to insert more elements??";

cin>>ch;

}

cout<<"now deletion of element begins....\n";

ch='y';

while(ch=='y'||ch=='Y')

{res=remove(queue);

if(res==-1)

{ cout<<"UNDERFLOW!!!!ABORTING!!\n";

exit(1);

}

else

{cout<<"\n element deleted is:"<<res<<endl;

cout<<"now the queue (front...to ...rear)is:\n";

display(queue,front,rear);

}

cout<<"want to delete more element???";

cin>>ch;

}return 0;

}

int insert(int queue[],intele)

{if(rear==size-1)

return -1;

else if(rear==-1)

{front=rear=0;

queue[rear]=ele ;

}

else

{rear++;

queue[rear]=ele;

}

return 0;

}

int remove(int queue[])

{int ret;

if(front==-1)

return -1;

else

{ret=queue[front];

if(front==rear)

front=rear=-1;

else front++;

}

return ret;

}

void display(intsqueue[],intfront,int rear)

{if(front==-1)

return;

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

cout<<queue[i]<<"<-\t";

cout<<queue[rear]<<endl;

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

