Class PatientList:

package MakyHospital;

/\*\*

\*

\* @author Youssef Abdulrazzak

\*/

class PNode

{

Patient patient;

PNode next,pre;

public PNode() {

}

public PNode(Patient patient) {

this.patient = patient;

next=null;

pre=null;

}

}

public class PatientList {

PNode head,tail;

public PatientList() {

head=null;

tail=null;

}

public void Insert(Patient patient)

{

PNode node = new PNode(patient);

if(head==null|| tail==null)

{

head=node;

tail=node;

}

else

{

head.next= node;

node.pre=head;

head=node;

}

}

public Patient searchByID(String id)

{

PNode temp=head;

while(temp!=null)

{

if(temp.patient.getId().equals(id))

{

return temp.patient;

}

temp=temp.pre;

}

return null;

}

public Patient getAtIndex(int index)

{

PNode temp=head;

for(int i=0;i<size();i++)

{

if(i==index)

{

break;

}

temp=temp.pre;

}

return temp.patient;

}

public int size()

{

PNode temp=head;

int count=0;

while(temp!=null)

{

count++;

temp=temp.pre;

}

return count;

}

public Patient searchByContact(String contact)

{

PNode temp=head;

while(temp!=null)

{

if(temp.patient.getContact().equals(contact))

{

return temp.patient;

}

temp=temp.pre;

}

return null;

}

public void PrintData()

{

PNode temp=head;

int count=0;

while(temp!=null)

{

count++;

System.out.println(count+": "+temp.patient.toString());

temp=temp.pre;

}

}

}