Class CheckUpList:

package MakyHospital;

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class CNode

{

Checkup cu;

CNode next,pre;

public CNode(Checkup cu) {

next=pre=null;

this.cu = cu;

}

}

public class CheckUpList {

CNode head , tail;

public CheckUpList() {

head=null;

tail=null;

}

public void Enqueue(Checkup cu)

{

CNode node = new CNode(cu);

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

{

head=node;

tail=node;

}

else if(head.cu.getPriority()<cu.getPriority())

{

head.next=node;

node.pre=head;

head=node;

}

else if(tail.cu.getPriority()>=cu.getPriority())

{

tail.pre=node;

node.next=tail;

tail=node;

}

else

{

CNode temp=tail;

while(temp!=null)

{

if(temp.cu.getPriority()>=cu.getPriority())

{

break;

}

temp=temp.next;

}

node.next=temp;

node.pre=temp.pre;

temp.pre.next=node;

temp.pre=node;

}

}

public int size()

{

CNode temp=head;

int count=0;

while(temp!=null)

{

count++;

temp=temp.pre;

}

return count;

}

public Checkup dequeue()

{

if(head==null)

{

tail=null;

return null;

}

CNode checkup=head;

head=head.pre;

return checkup.cu;

}

public Checkup getAtIndex(int index)

{

CNode temp=head;

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

{

temp=temp.pre;

}

return temp.cu;

}

public void addRecomendation(int index,String rec)

{

CNode temp=head;

int i=0;

while(temp!=null)

{

if(index==i)

{

temp.cu.setRecomendation(rec);

break;

}

i++;

temp=temp.pre;

}

}

public Patient getPatient(int index)

{

CNode temp=head;

int i=0;

while(temp!=null)

{

if(index==i)

{

break;

}

i++;

temp=temp.pre;

}

return temp.cu.getPatient();

}

public void Print()

{

CNode temp=head;

while(temp!=null)

{

System.out.println(temp.cu.getPriority()+" "+temp.cu.getRecomendation());

temp=temp.pre;

}

}

}