

Queue.java

```
////////////////////////////////////  
//www.karamian.com  
//Program Quiz8  
////////////////////////////////////  
  
import java.io.*;  
import java.util.*;  
  
//*****  
// Class Queue  
//*****  
  
public class Queue  
{  
    QueueNode front; // holds front position of Queue  
    QueueNode rear; // holds rear position of Queue  
    int count; // holds current size of Queue  
  
    //=====  
    // The Queue constructor.  
    //=====  
  
    public Queue()  
    {  
        count=0;  
    }// end Queue constructor  
  
    //=====  
    // The empty method.  
    //=====  
  
    public boolean empty()  
    {  
        return (count==0);  
    }// end empty method  
  
    //=====  
    // The insert method.  
    // Inserts a new node in Queue and increments count by 1.  
    //=====  
  
    public void insert(Object newName)  
    {  
        QueueNode temp=new QueueNode();  
        temp.name=newName;  
        if(rear==null)  
        {  
            front=rear=temp;  
        }  
        else  
        {  
            rear.link=temp;  
            rear=temp;  
        }  
        count++;  
    }// end insert method  
  
    //=====  
    // The delete method.  
    // Deletes first node in Queue and decrements count by 1.  
    //=====
```

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```
public Object remove()
{
    if(count==0)
    {
        return null;
    }
    else
    {
        Object tempName=front.name;
        front=front.link;
        if(front==null)
        {
            rear=null;
        }
        count--;
        return tempName;
    }
}

} // end remove method

//=====
// The print method.
// Prints current Queue list.
//=====

public void print()
{
    String c;
    int i=1;
    QueueNode printList=front;
    while(printList!=null)
    {
        c=(String)printList.name;
        System.out.print("Position "+ i+ ": ");
        System.out.println(c);
        printList=printList.link;
        i++;
    }
}

} // end print method
} //end of Class Queue
```