Given the following text file, TALKSHOW.DAT:

```
Jimmy Fallon 0001 09/19/1974
Conan O'Brien 0004 04/18/1963
David Letterman 0003 04/12/1947
Jay Leno 0004 04/28/1950
Jimmy Kimmel 0005 11/13/1967
Jon Stewart 0006 11/28/1962
Stephen Colbert 0007 05/13/1964
```

And the following Host Java class, answer the questions that follow:

```java
package edu.calhoun.cis.java.intro.homework.homework14;

import java.util.Date;

public class Host {
    private String lastName;
    private String firstName;
    private String hostNumber;
    private Date birthday;

    public Host() {
    }

    public Host(String lastName, String firstName, String hostNumber, Date birthday) {
        this.lastName = lastName;
        this.firstName = firstName;
        this.hostNumber = hostNumber;
        this.birthday = birthday;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getFirstName() {
        return firstName;
    }

    public void setHostNumber(String hostNumber) {
        this.hostNumber = hostNumber;
```

```
        }

        public String getHostNumber() {
            return hostNumber;
        }

        public void setBirthday(Date birthday) {
            this.birthday = birthday;
        }

        public Date getBirthday() {
            return birthday;
        }

        public String toString() {
            StringBuffer buffer = new StringBuffer();

            buffer.append("LAST NAME: " + lastName);
            buffer.append(" | FIRST NAME: " + firstName);
            buffer.append(" | HOST NUMBER: " + hostNumber);
            buffer.append(" | BIRTHDAY: " + birthday);

            return buffer.toString();
        }
    }
```

1. **Write a Java class HmWk14. Create the method readTalkshow(list) in the HmWk14 class that that reads the file TALKSHOW.DAT. Each line in the data file will be stored into a Host Java class object and added to a list of Host objects. Make a note that the date in the file needs to be converted to a Date object before setting the birthday field in the Host class. Once the file has been read and saved into a list of Host objects, create another method displayTalkshow(list) which iterates the list and display the information for each talk show host. Create the class HmWk14 in the Java package edu.calhoun.cis.java.intro.homework.homework14.**

2. **Create the method writeTalkshow() to the HmWk14 class in Question #1 that that writes the Host objects to a new data file TALKSHOW_NEW.DAT. The birthday must be written in the format MM/DD/YYYY. Before writing the hosts to the new file, add a new Host object to the list by creating the method addHost(List<Host> hosts, String lastName, String firstName, String hostNumber, String birthday) and passing it the following values:**

   Last Name: Meyers
   First Name: Seth
   Host Number: 0008
   Birthday: 12/28/1973

   Show the output generated by executing this program and show the contents of the newly created TALKSHOW_NEW.DAT.