

18.01 Assignment Instructions

Instructions: For this assignment, you are going to create some sequential search methods.

1. Create a folder called **18.01 Assignment** in your module 18 assignments folder.
 - a. Create a class called **Music**.
 - b. **Music** will need instance variables **title**, **year**, and **singer** (of types **String**, **int**, and **String**, respectively).
 - c. **Music** will need appropriate methods and constructors. Make sure to have a **toString()** method that prints the Music in the following format:
Title, Year, Singer
 - d. Save the class as **Music.java**.
2. You are to create a class called **TestMusic** and save it as **TestMusic.java**.
 - a. Make sure that you create an array called **myMusic**. Add the following CDs.

Title	Year	Singer
Pieces of You	1994	Jewel
Jagged Little Pill	1995	Alanis Morissette
What If It's You	1995	Reba McEntire
Misunderstood	2001	Pink
Laundry Service	2001	Shakira
Taking the Long Way	2006	Dixie Chicks
Under My Skin	2004	Avril Lavigne
Let Go	2002	Avril Lavigne
Let It Go	2007	Tim McGraw
White Flag	2004	Dido

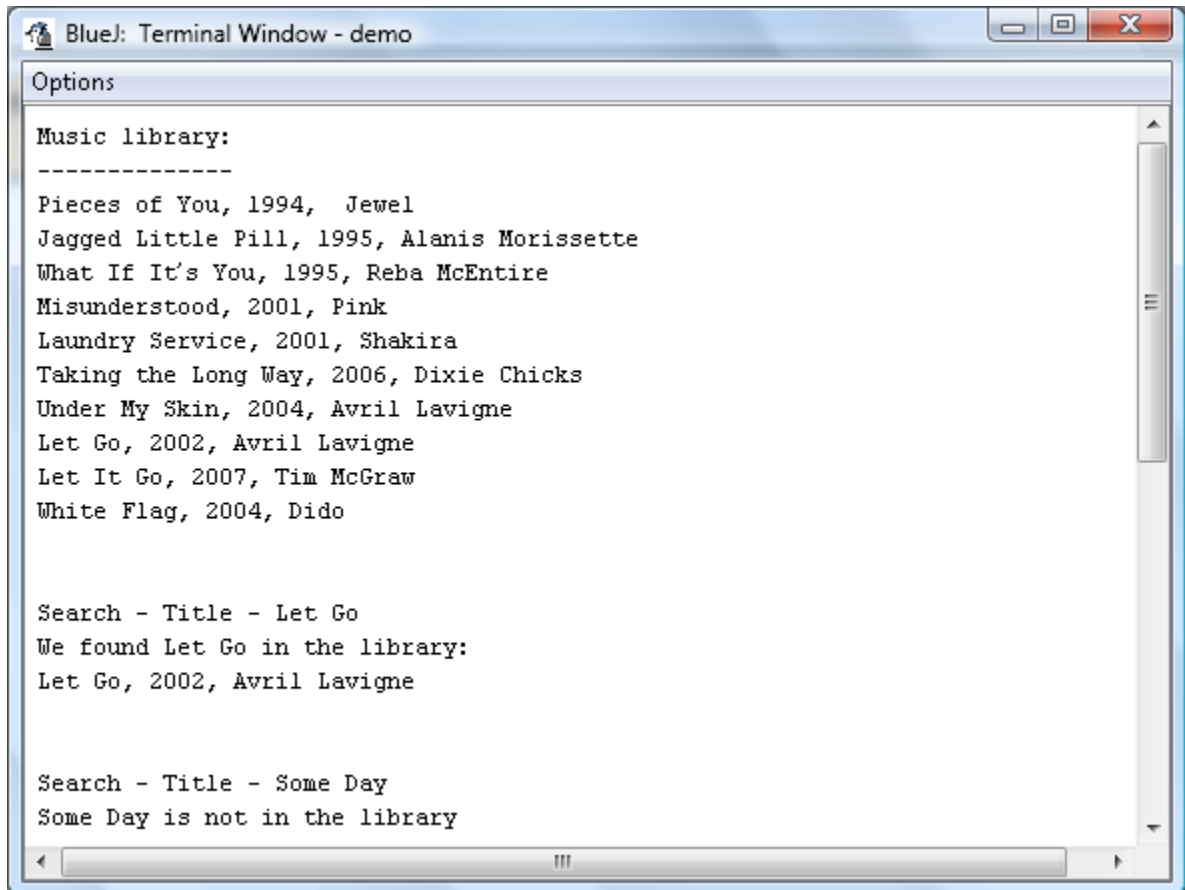
- b. Create a method called **printMusic()** that traverses through the array and prints out each element.
- c. Create a method called **searchTitle()** that sequential searches to see if a particular title is in the list. It should have two arguments: the array and a title to find.
- d. Create a method called **searchYear()** that sequential searches to see if there are any CDs for a particular year; it should list all the CDs it finds. It should have two arguments: the array and the year you want to find.
- e. Create a method called **searchSinger()** that sequential searches for CDs belonging to a particular singer; it should list all the CDs it finds. It should have two arguments: the array and the singer's name you want to find.
- f. Test your methods, showing the results for the following searches:

Title – Let Go
Title – Some Day
Year – 2001
Year – 2003

Singer – Avril Lavigne

Singer – Tony Curtis

Your output will be similar to that shown below:



```
Blue: Terminal Window - demo
Options
Music library:
-----
Pieces of You, 1994, Jewel
Jagged Little Pill, 1995, Alanis Morissette
What If It's You, 1995, Reba McEntire
Misunderstood, 2001, Pink
Laundry Service, 2001, Shakira
Taking the Long Way, 2006, Dixie Chicks
Under My Skin, 2004, Avril Lavigne
Let Go, 2002, Avril Lavigne
Let It Go, 2007, Tim McGraw
White Flag, 2004, Dido

Search - Title - Let Go
We found Let Go in the library:
Let Go, 2002, Avril Lavigne

Search - Title - Some Day
Some Day is not in the library
```

