

Lab 10 Feedback

- Hope you're proud of yourselves!
- Mostly minor issues
 - Not closing file objects
 - Comment on the Song constructor
 - What are the data types of each parameter
 - Writing PlayTime object to the file prints out too much
 - Just want minutes and seconds
 - `__cmp__` method: should return 0 when they're equal
 - Give user feedback when something happened

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Lab 10 Feedback

- Don't print inside of sort method
 - Unwanted side effects (seen today)
 - Print inside of driver program, after sort called
- Not writing songs in library
- Testing vs the UI
 - In testing the MusicCollection class, you created a MusicCollection object and called methods on it
 - The UI is similar
 - Create a MusicCollection object based on the library file to read
 - Call methods on the MusicCollection object based on what the user wants

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Lab 11: Three Parts

- Linux practice:
 - Using the `wc` command
- MyTunes extensions
- Two-dimensional lists

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wc Command

- **wc**: Word Count
 - Count up the lines of MyTunes code from Lab 10
 - Compare with code for this assignment
- Specific directions are in the lab

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MyTunes, Extended

- Searching
 - Allows you to search for songs by title
 - Update MusicCollection class and UI appropriately

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Summary of Modifications to Binary Search

- Check the *title* of the Song that is at the midpoint
- Get the songs before and after that song in the list for songs that have the same title and put in a list
- Represent (in method), and handle (in UI) when no song matches
- For "most intuitive" results:
 - Strip, lowercase the key
 - Changes algorithm again slightly

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search2.py

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MyTunes, Extended

- Exception handling
 - Every place opening a file, add exception handling
 - Print out error message and return from method

```
try:  
    <code that could throw an exception>  
except [error-type]:  
    <handle exception appropriately>
```

MyTunes Code

- You'll want to fix the major problems in your code first
- Or, use the code in the handouts/lab11 directory
 - music.py, mytunes.py

2D List Practice

- Creating, printing, processing 2D list
- ConnectFour
 - Opportunities for extra credit

Reminder

- Give me your final exam envelopes by Thursday so that I can stuff them