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Computer Science 262

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Music CD Catalog Design Documentation

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| DriverInterface | Driver to test CDCatalog and provide user interface. |
| +main(String[]: args): void  -askMenu(): String | The program’s main, which handles the menu options.  Returns valid user input for menu selections. |

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| CDCollection | Object for managing MusicCDs and their I\O files. |
| -list: MusicCD[]  -count: int | Array for holding MusicCD objects.  Integer that keeps track of the number of objects in list. |
| +CDCollection()  +readCD(file: String): void  -openInputFile(): File  -parseTitle(signature: String): String  -parseArtist(signature: String): String  -parseYear(signature: String): String  +clearList(): void  +writeCD(file String): void  -openOutputFile(): File  -insert(song: MusicCD): void  -isFull(): void  -makeListBigger(): void  -compareMusicCD(sortedList:  MusicCD[], index: int): boolean  +toString(): String | The class constructor.  Reads a text file and stores formatted strings to the list.  Returns file using file-chooser UI.  Returns parsed title for the file signatures.  Returns parsed artist for the file signatures.  Returns parsed date for the file signatures.  Clears on songs from the list.  Writes list of songs to new or previous text file.  Returns valid save file using file-chooser UI.  Inserts a MusicCD object into the list.  Checks if the list is full.  Increases the size of the list.  Returns true if a MusicCD object is lexiconically greater  than the next MusicCD in its list. Helps insert.  Returns list data as a string. |

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| MusicCD | A rudimentary class for making CD signature objects. |
| -title: String  -artist: String  -date: String | String for song’s title.  String for song’s artist.  String for song’s date. |
| +MusicCD()  +MusicCD(title: String,  artist: String, date: String)  +setTitle(title: String): void  +getTitle(): String  +setArtist(artist: String): void  +getArtist(): String  +setDate(date: String): void  +getDate(): String  +toString(): String | Default constructor for MusicCD using empty strings.  Class constructor for MusicCD object.  Sets the title string.  Returns the title string.  Sets the artist string.  Returns the artist string.  Sets the date string.  Returns the date string.  Returns the title, artist, and date as a single string. |