

Coursework Test results

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Data structures and algorithms

# **Test One:**

Start of test 1...

Testing getter methods...

3

Burning

Whitest Boy Alive

191

WBA

2006-06-21

Dreams

indie

Testing setter methods...

Was ID set correctly? true

Was Title set correctly? true

Was Artist set correctly? true

Was Track Length set correctly? true

Was Composer set correctly? true

Was Release Date set correctly? true

Was Album set correctly? true

Was Genre set correctly? true

End of test 1...

# **Test Two:**

Start of test 2...

Testing method to display song in list; parameter given: 'song5'...

ID is: 7

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

Testing method to search for song by title; parameter given: 'Money'...

ID is: 6

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

Testing method to search for song by artist; parameter given: 'Tom Petty'...

ID is: 2

Title is: Runnin' Down a Dream

Artist is: Tom Petty

Length is: 4:21

Composer is: TP

Release date is: 1989-07-29

Album is: FMF

Genre is: classic rock

Testing method to display songs by genre; parameter given: 'indie'...

ID is: 5

Title is: Burning

Artist is: Whitest Boy Alive

Length is: 3:11

Composer is: WBA

Release date is: 2006-06-21

Album is: Dreams

Genre is: indie

ID is: 7

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

Testing method to display all songs...

ID is: 4

Title is: title

Artist is: artist

Length is: 2:30

Composer is: composer

Release date is: 1970-04-20

Album is: album

Genre is: genre

ID is: 2

Title is: Runnin' Down a Dream

Artist is: Tom Petty

Length is: 4:21

Composer is: TP

Release date is: 1989-07-29

Album is: FMF

Genre is: classic rock

ID is: 5

Title is: Burning

Artist is: Whitest Boy Alive

Length is: 3:11

Composer is: WBA

Release date is: 2006-06-21

Album is: Dreams

Genre is: indie

ID is: 6

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 7

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

End of test 2...

# Test Three:

Start of test 3...

Displaying in ascending order by artist...

ID is: 4

Title is: Blowin' in the Wind

Artist is: Bob Dylan

Length is: 2:45

Composer is: BD

Release date is: 1963-08-13

Album is: Freewheelin' BD

Genre is: rock

ID is: 8

Title is: Oxygen

Artist is: Dirty Heads

Length is: 3:45

Composer is: DH

Release date is: 2016-07-15

Album is: Oxygen

Genre is: indie

ID is: 7

Title is: Dreams

Artist is: Fleetwood Mac

Length is: 4:17

Composer is: FM

Release date is: 1977-03-24

Album is: Rumours

Genre is: classic rock

ID is: 10

Title is: Althea

Artist is: Grateful Dead

Length is: 6:52

Composer is: GD

Release date is: 1980-04-28

Album is: Go to Heaven

Genre is: blues rock

ID is: 5

Title is: Hey Joe

Artist is: Jimi Hendrix

Length is: 3:30

Composer is: JM

Release date is: 1967-12-17

Album is: Are You Experienced

Genre is: classic rock

ID is: 1

Title is: Dashboard

Artist is: Modest Mouse

Length is: 4:6

Composer is: MM

Release date is: 2007-01-16

Album is: WWDBSS

Genre is: indie

ID is: 6

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

ID is: 3

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 9

Title is: Noise Pollution

Artist is: Portugal The Man

Length is: 3:45

Composer is: PTM

Release date is: 2017-06-16

Album is: NP

Genre is: indie rock

ID is: 12

Title is: Sound of Madness

Artist is: Shinedown

Length is: 3:53

Composer is: SD

Release date is: 2008-06-24

Album is: SOM

Genre is: hard rock

ID is: 2

Title is: Jungle

Artist is: Tash Sultana

Length is: 5:15

Composer is: TS

Release date is: 2016-09-05

Album is: Jungle

Genre is: indie

ID is: 11

Title is: Say It Ain't So

Artist is: Weezer

Length is: 4:18

Composer is: WZR

Release date is: 1995-07-13

Album is: OPSSGF

Genre is: indie rock

Displaying in descending order by artist...

ID is: 11

Title is: Say It Ain't So

Artist is: Weezer

Length is: 4:18

Composer is: WZR

Release date is: 1995-07-13

Album is: OPSSGF

Genre is: indie rock

ID is: 2

Title is: Jungle

Artist is: Tash Sultana

Length is: 5:15

Composer is: TS

Release date is: 2016-09-05

Album is: Jungle

Genre is: indie

ID is: 12

Title is: Sound of Madness

Artist is: Shinedown

Length is: 3:53

Composer is: SD

Release date is: 2008-06-24

Album is: SOM

Genre is: hard rock

ID is: 9

Title is: Noise Pollution

Artist is: Portugal The Man

Length is: 3:45

Composer is: PTM

Release date is: 2017-06-16

Album is: NP

Genre is: indie rock

ID is: 3

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 6

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

ID is: 1

Title is: Dashboard

Artist is: Modest Mouse

Length is: 4:6

Composer is: MM

Release date is: 2007-01-16

Album is: WWDBSS

Genre is: indie

ID is: 5

Title is: Hey Joe

Artist is: Jimi Hendrix

Length is: 3:30

Composer is: JM

Release date is: 1967-12-17

Album is: Are You Experienced

Genre is: classic rock

ID is: 10

Title is: Althea

Artist is: Grateful Dead

Length is: 6:52

Composer is: GD

Release date is: 1980-04-28

Album is: Go to Heaven

Genre is: blues rock

ID is: 7

Title is: Dreams

Artist is: Fleetwood Mac

Length is: 4:17

Composer is: FM

Release date is: 1977-03-24

Album is: Rumours

Genre is: classic rock

ID is: 8

Title is: Oxygen

Artist is: Dirty Heads

Length is: 3:45

Composer is: DH

Release date is: 2016-07-15

Album is: Oxygen

Genre is: indie

ID is: 4

Title is: Blowin' in the Wind

Artist is: Bob Dylan

Length is: 2:45

Composer is: BD

Release date is: 1963-08-13

Album is: Freewheelin' BD

Genre is: rock

Displaying artists...

[Bob Dylan, Dirty Heads, Fleetwood Mac, Grateful Dead, Jimi Hendrix, Modest Mouse, Pink Floyd, Portugal The Man, Shinedown, Tash Sultana, Weezer]

End of test 3...

# User Menu:

User Menu:

A. Create and add a song to the list

B. Search for a song by title

C. Search for a song by artist

D. Display all the songs for a genre

E. Display all the songs in the list

F. Display all the songs in ascending order by artist

G. Display all the songs in descending order by artist

H. Display all artist names for all songs

I. Need help?

Q. Quit

## Testing A.

a

Enter song's title:

California

Enter song's artist:

Betcha

Enter song's length in format MM:SS:

3:07

Enter song's composer:

idk

Enter song's release date in format YYYY-MM-DD:

2015-02-15

Enter song's album:

Falling

Enter song's genre:

indie rock

You have created and added this song to the list:

ID is: 17

Title is: California

Artist is: Betcha

Length is: 3:7

Composer is: idk

Release date is: 2015-02-15

Album is: Falling

Genre is: indie rock

## Testing B

b

Enter a song title:

Money

ID is: 15

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

## Testing C

c

Enter a song's artist:

Modest Mouse

ID is: 16

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

## Testing D

d

Enter a genre:

indie

ID is: 14

Title is: Burning

Artist is: Whitest Boy Alive

Length is: 3:11

Composer is: WBA

Release date is: 2006-06-21

Album is: Dreams

Genre is: indie

ID is: 16

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

## Testing E

e

ID is: 13

Title is: title

Artist is: artist

Length is: 2:30

Composer is: composer

Release date is: 1970-04-20

Album is: album

Genre is: genre

ID is: 2

Title is: Runnin' Down a Dream

Artist is: Tom Petty

Length is: 4:21

Composer is: TP

Release date is: 1989-07-29

Album is: FMF

Genre is: classic rock

ID is: 14

Title is: Burning

Artist is: Whitest Boy Alive

Length is: 3:11

Composer is: WBA

Release date is: 2006-06-21

Album is: Dreams

Genre is: indie

ID is: 15

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 16

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

ID is: 17

Title is: California

Artist is: Betcha

Length is: 3:7

Composer is: idk

Release date is: 2015-02-15

Album is: Falling

Genre is: indie rock

## Testing F

f

Displaying in ascending order by artist...

ID is: 4

Title is: Blowin' in the Wind

Artist is: Bob Dylan

Length is: 2:45

Composer is: BD

Release date is: 1963-08-13

Album is: Freewheelin' BD

Genre is: rock

ID is: 8

Title is: Oxygen

Artist is: Dirty Heads

Length is: 3:45

Composer is: DH

Release date is: 2016-07-15

Album is: Oxygen

Genre is: indie

ID is: 7

Title is: Dreams

Artist is: Fleetwood Mac

Length is: 4:17

Composer is: FM

Release date is: 1977-03-24

Album is: Rumours

Genre is: classic rock

ID is: 10

Title is: Althea

Artist is: Grateful Dead

Length is: 6:52

Composer is: GD

Release date is: 1980-04-28

Album is: Go to Heaven

Genre is: blues rock

ID is: 5

Title is: Hey Joe

Artist is: Jimi Hendrix

Length is: 3:30

Composer is: JM

Release date is: 1967-12-17

Album is: Are You Experienced

Genre is: classic rock

ID is: 1

Title is: Dashboard

Artist is: Modest Mouse

Length is: 4:6

Composer is: MM

Release date is: 2007-01-16

Album is: WWDBSS

Genre is: indie

ID is: 6

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

ID is: 3

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 9

Title is: Noise Pollution

Artist is: Portugal The Man

Length is: 3:45

Composer is: PTM

Release date is: 2017-06-16

Album is: NP

Genre is: indie rock

ID is: 12

Title is: Sound of Madness

Artist is: Shinedown

Length is: 3:53

Composer is: SD

Release date is: 2008-06-24

Album is: SOM

Genre is: hard rock

ID is: 2

Title is: Jungle

Artist is: Tash Sultana

Length is: 5:15

Composer is: TS

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## Testing G

g

Displaying in descending order by artist...

ID is: 11

Title is: Say It Ain't So

Artist is: Weezer

Length is: 4:18

Composer is: WZR

Release date is: 1995-07-13

Album is: OPSSGF

Genre is: indie rock

ID is: 2

Title is: Jungle

Artist is: Tash Sultana

Length is: 5:15

Composer is: TS

Release date is: 2016-09-05

Album is: Jungle

Genre is: indie

ID is: 12

Title is: Sound of Madness

Artist is: Shinedown

Length is: 3:53

Composer is: SD

Release date is: 2008-06-24

Album is: SOM

Genre is: hard rock

ID is: 9

Title is: Noise Pollution

Artist is: Portugal The Man

Length is: 3:45

Composer is: PTM

Release date is: 2017-06-16

Album is: NP

Genre is: indie rock

ID is: 3

Title is: Money

Artist is: Pink Floyd

Length is: 6:22

Composer is: PF

Release date is: 1973-05-07

Album is: DSOM

Genre is: rock

ID is: 6

Title is: Float On

Artist is: Modest Mouse

Length is: 3:28

Composer is: MM

Release date is: 2014-02-14

Album is: 10 Years Pure

Genre is: indie

ID is: 1

Title is: Dashboard

Artist is: Modest Mouse

Length is: 4:6

Composer is: MM

Release date is: 2007-01-16

Album is: WWDBSS

Genre is: indie

ID is: 5

Title is: Hey Joe

Artist is: Jimi Hendrix

Length is: 3:30

Composer is: JM

Release date is: 1967-12-17

Album is: Are You Experienced

Genre is: classic rock

ID is: 10

Title is: Althea

Artist is: Grateful Dead

Length is: 6:52

Composer is: GD

Release date is: 1980-04-28

Album is: Go to Heaven

Genre is: blues rock

ID is: 7

Title is: Dreams

Artist is: Fleetwood Mac

Length is: 4:17

Composer is: FM

Release date is: 1977-03-24

Album is: Rumours

Genre is: classic rock

ID is: 8

Title is: Oxygen

Artist is: Dirty Heads

Length is: 3:45

Composer is: DH

Release date is: 2016-07-15

Album is: Oxygen

Genre is: indie

ID is: 4

Title is: Blowin' in the Wind

Artist is: Bob Dylan

Length is: 2:45

Composer is: BD

Release date is: 1963-08-13

Album is: Freewheelin' BD

Genre is: rock

## Testing I

i

This application allows users to add songs to a list, search for songs by title or artist,

display all songs in the list or those of a specific genre, as well as display the songs

in different orders or display all artist names.