* *You will be building a linked list. Make sure to keep track of both the head and tail nodes.*
* (1) Create three files to submit.
* PlaylistNode.h - Class declaration
* PlaylistNode.cpp - Class definition
* main.cpp - main() function
* Build the PlaylistNode class per the following specifications. Note: Some functions can initially be function stubs (empty functions), to be completed in later steps.
* Default constructor (1 pt)
* Parameterized constructor (1 pt)
* Public member functions
* InsertAfter() - Mutator (1 pt)
* SetNext() - Mutator (1 pt)
* GetID() - Accessor
* GetSongName() - Accessor
* GetArtistName() - Accessor
* GetSongLength() - Accessor
* GetNext() - Accessor
* PrintPlaylistNode()
* Private data members
* string uniqueID - Initialized to "none" in default constructor
* string songName - Initialized to "none" in default constructor
* string artistName - Initialized to "none" in default constructor
* int songLength - Initialized to 0 in default constructor
* PlaylistNode\* nextNodePtr - Initialized to 0 in default constructor
* Ex. of PrintPlaylistNode output:

Unique ID: S123

Song Name: Peg

Artist Name: Steely Dan

Song Length (in seconds): 237

* (2) In main(), prompt the user for the title of the playlist. (1 pt)   
    
  Ex:

Enter playlist's title:

JAMZ

* (3) Implement the PrintMenu() function. PrintMenu() takes the playlist title as a parameter and outputs a menu of options to manipulate the playlist. Each option is represented by a single character. Build and output the menu within the function.
* If an invalid character is entered, continue to prompt for a valid choice. Hint: Implement Quit before implementing other options. Call PrintMenu() in the main() function. Continue to execute the menu until the user enters q to Quit. (3 pts)   
    
  Ex:

JAMZ PLAYLIST MENU

a - Add song

d - Remove song

c - Change position of song

s - Output songs by specific artist

t - Output total time of playlist (in seconds)

o - Output full playlist

q - Quit

Choose an option:

* (4) Implement "Output full playlist" menu option. If the list is empty, output: Playlist is empty (3 pts)   
    
  Ex:

JAMZ - OUTPUT FULL PLAYLIST

1.

Unique ID: SD123

Song Name: Peg

Artist Name: Steely Dan

Song Length (in seconds): 237

2.

Unique ID: JJ234

Song Name: All For You

Artist Name: Janet Jackson

Song Length (in seconds): 391

3.

Unique ID: J345

Song Name: Canned Heat

Artist Name: Jamiroquai

Song Length (in seconds): 330

4.

Unique ID: JJ456

Song Name: Black Eagle

Artist Name: Janet Jackson

Song Length (in seconds): 197

5.

Unique ID: SD567

Song Name: I Got The News

Artist Name: Steely Dan

Song Length (in seconds): 306

* (5) Implement the "Add song" menu item. New additions are added to the end of the list. (2 pts)   
    
  Ex:

ADD SONG

Enter song's unique ID:

SD123

Enter song's name:

Peg

Enter artist's name:

Steely Dan

Enter song's length (in seconds):

237

* (6) Implement the "Remove song" function. Prompt the user for the unique ID of the song to be removed.(4 pts)   
    
  Ex:

REMOVE SONG

Enter song's unique ID:

JJ234

"All For You" removed

* (7) Implement the "Change position of song" menu option. Prompt the user for the current position of the song and the desired new position. Valid new positions are 1 - *n* (the number of nodes). If the user enters a new position that is less than 1, move the node to the position 1 (the head). If the user enters a new position greater than *n*, move the node to position *n* (the tail). 6 cases will be tested:
* Moving the head node (1 pt)
* Moving the tail node (1 pt)
* Moving a node to the head (1 pt)
* Moving a node to the tail (1 pt)
* Moving a node up the list (1 pt)
* Moving a node down the list (1 pt)
* Ex:

CHANGE POSITION OF SONG

Enter song's current position:

3

Enter new position for song:

2

"Canned Heat" moved to position 2

* (8) Implement the "Output songs by specific artist" menu option. Prompt the user for the artist's name, and output the node's information, starting with the node's current position. (2 pt)   
    
  Ex:

OUTPUT SONGS BY SPECIFIC ARTIST

Enter artist's name:

Janet Jackson

2.

Unique ID: JJ234

Song Name: All For You

Artist Name: Janet Jackson

Song Length (in seconds): 391

4.

Unique ID: JJ456

Song Name: Black Eagle

Artist Name: Janet Jackson

Song Length (in seconds): 197

* (9) Implement the "Output total time of playlist" menu option. Output the sum of the time of the playlist's songs (in seconds). (2 pts)   
    
  Ex:

OUTPUT TOTAL TIME OF PLAYLIST (IN SECONDS)

Total time: 1461 seconds