ASSIGNMENT 1

You have a long list of the songs in your album music. Each song has the following information:

- Song name (String)
- Artist (String)
- Rated (int)

The information of the song list is stores in the file "songs.txt" with the format:

<song name>|<artist>|<rated>

For example:

Fields of gold | Eva Cassidy | 2

Dancing in the moonlight | Jubel | 3

Fields of gold | Fourplay | 2

Papa | Paul Anka | 4

Dancing in the moonlight | King Harvest | 4

Fields of gold | Celtic Woman | 3

YOUR TASK:

- 1. Reading the list of the songs from the file and store in the linked list with the same order.
- 2. Traverse the linked list you just created.
- 3. Input a song name, display information of the songs which have that name.

For example: Input a song name: Fields of gold

Display information of the songs which have that name:

Fields of gold | Celtic Woman | 3

Fields of gold | Fourplay | 2

Fields of gold | Eva Cassidy | 2

4. With the songs found in the step 3, delete all the song which have lowest rated, and traverse the linked list after deleting. For example:

Fields of gold | Eva Cassidy | 2

Dancing in the moonlight | Jubel | 3

Fields of gold | Fourplay | 2

Papa | Paul Anka | 4

Dancing in the moonlight | King Harvest | 4

Fields of gold | Celtic Woman | 3

- 5. Write the list after step 4 to the file "output.txt" with the same format of the input file.
- 6. Find all the song with the highest rated in the list, move them to the head of the list. For example, with the input from file above, the highest rated = 4, so the list should be:

Papa|Paul Anka|4

Dancing in the moonlight | King Harvest | 4

Fields of gold | Eva Cassidy | 2

Dancing in the moonlight | Jubel | 3

Fields of gold | Fourplay | 2

Fields of gold | Celtic Woman | 3