ASSIGNMENT 1

You have a long list of the songs in your album music. Each song has the following information: Song name (String type), Artist (String type), 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

Money | Abba | 1

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, check if the song name lasts with 'y' or rated <=1 then do nothing, otherwise add the song to the linked list with the same order in the file.
- 2. Traverse the linked list you just created.
- 3. Display the average of all rated in the list.
- 4. Delete all the songs have the third highest rated.
- 5. Write the list after step 4 to the file "output.txt" with the same format of the input file.
- 6. Remove duplicate songs (according to the song name) in the list: for each duplicate song name, keep the song which have the highest rated and remove the others. For example, 2 songs following have same name, the song in the red color will be removed.

Dancing in the moonlight | Jubel | 3

Dancing in the moonlight | King Harvest | 4

7. Traverse the list after step 6.