

Assignment 2
CS 1083 FR01A
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PlayList.java

```
public PlayList addSong(Song songIn){
    //TO DO: Complete this method
    int newLength = list.length + 1;
    Song [] newPlaylist = new Song[newLength];
    PlayList finalPlaylist;
    long newSong = songIn.getId();
    boolean found = true;
    int locationCounter=0;

    while (found= false){
        for (int i=0; i<list.length; i++) { //find placement-see where it fits
            Song refSong = list[i];

            if (newSong < refSong.getId()){
                found =true;
            }
            locationCounter++;
        }
    }

    for (int i =0; i < newLength; i++){

        if (i<=(locationCounter)){
            newPlaylist[i]=list[i];
        }
        if (i==locationCounter+1){
            newPlaylist[i]= songIn;
        }

        if (i>locationCounter+1){

            newPlaylist[i]=list[i-1];
        }
    }

    finalPlaylist = new PlayList(newPlaylist);
}
```

```
        return finalPlaylist;
    }
}
```

b.

Input

7

22456321239,Off He Goes ,1

22456321241,Red Mosquito,2

22456321242,Present Tense,2

22456321245,My Poor Brain,2

22456321250,New Way Home,4

22456321255,Lake on Fire,3

22456321261,The Distance,4

6

22456321243,Face and Ghost,2

22456321245,My Poor Brain,2

22456321247,Enough Space,4

22456321249,February Stars,1

22456321250,New Way Home,4

22456321267,Space Travel,5

22456321259,One Hit Wonder,2

Output

```
C:\Users\kisen\Java2\Asgn2>java TestPlayList<TestCasel.dat
22456321239    Off He Goes    1
22456321241    Red Mosquito   2
22456321242    Present Tense  2
22456321245    My Poor Brain  2
22456321250    New Way Home   4
22456321255    Lake on Fire   3
22456321261    The Distance   4
```

The highest rated songs are:

```
22456321250    New Way Home   4
22456321261    The Distance   4
```

Updated playlist:

```
22456321239    Off He Goes    1
22456321241    Red Mosquito   2
22456321242    Present Tense  2
22456321245    My Poor Brain  2
22456321250    New Way Home   4
22456321255    Lake on Fire   3
22456321259    One Hit Wonder  2
22456321261    The Distance   4
```

```
22456321243    Face and Ghost  2
22456321245    My Poor Brain  2
22456321247    Enough Space   4
22456321249    February Stars 1
22456321250    New Way Home   4
22456321267    Space Travel   5
```

There are 2 songs found in both play lists

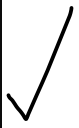
Testing

```
22456321239    Off He Goes      1
22456321241    Red Mosquito     2
22456321242    Present Tense    2
22456321245    My Poor Brain    2
22456321250    New Way Home     4
22456321255    Lake on Fire     3
22456321261    The Distance     4

The highest rated songs are:
22456321250    New Way Home     4
22456321261    The Distance     4
```

In this case there were two songs with the highest rated value of 4. A new playlist was returned with both of them.

```
Updated playlist:
22456321239    Off He Goes      1
22456321241    Red Mosquito     2
22456321242    Present Tense    2
22456321245    My Poor Brain    2
22456321250    New Way Home     4
22456321255    Lake on Fire     3
22456321259    One Hit Wonder   2
22456321261    The Distance     4
```



In this case the song One Hit Wonder was added to the playlist in the correct location.

```
Updated playlist:
22456321239    Off He Goes      1
22456321241    Red Mosquito     2
22456321242    Present Tense    2
22456321245    My Poor Brain    2
22456321250    New Way Home     4
22456321255    Lake on Fire     3
22456321259    One Hit Wonder   2
22456321261    The Distance     4

22456321243    Face and Ghost    2
22456321245    My Poor Brain    2
22456321247    Enough Space     4
22456321249    February Stars   1
22456321250    New Way Home     4
22456321267    Space Travel     5

There are 2 songs found in both play lists
```

In this case New Way Home and My Poor Brain were found in both playlists.

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