I worked with a friend who has a lot of music on his computer. He also uses linux, so getting his music collection and manipulating the text would be relatively straightforward.
We chose only to share our full albums rather than singles as well to make the sorting process easier. Luckily we both had the same file/folder format. In the top level we had the Artist name, with the Album name under that, with the files within the album folder. We chose the categories to be:

        Albums (for whole albums by a single artist)
        Compilations (Tracks by various artists)
        Soundtracks (Tracks by various artists from movies/tv programmes etc)

I worked out the commands to run in order to manipulate to output of the 'ls' command and then instant messaged my friend the command. Once he ran it, ihe emailed the text file. The command is shown below:

```
ls -R | grep -v .mp3 > ~/dave_music.txt
```

This lists all the files and folder, but doesn't display the actual music files. This gave a text that looks like this:

```
./3 Doors Down:
The Better Life/

./3 Doors Down/The Better Life:

./50 Cent:
Get Rich Or Die Tryin'/

./50 Cent/Get Rich Or Die Tryin':

./Afroman:
The Good Times/

./Afroman/The Good Times:
```

which isn't in a very readable or useful for comparing to another file. I thus ran the following command to clean up the output (and get rid of the artist folder):

```
cat dave_music.txt | grep './' | egrep '\.\/.*\/.*:' | sed 's/\.\///'
| sed 's/://' | sed 's/\//\ -\ /' > dave_results.txt
```

The output is now this:

```
3 Doors Down - The Better Life
50 Cent - Get Rich Or Die Tryin'
Afroman - The Good Times
```

Now I had my music in an easily readable format. I got my frind to do the same thing, and he sent back the results via email.

To just get the uniq items, appended his file on the end of mine, and then sorted it. I next ran the uniq command which only prints non-duplicated lines in a sorted file. As only 60 albums

were needed, i used the head command and then printed the output to a text file. The
command is show below:

```
cat dave_results.txt vipul_results.txt | sort | uniq -iu | head -n 60
> music_list.txt
```

As I was working with a friend and we instant message quite a lot I didn't find it too difficult. The
hardest part was the exchanging of long lists of text and trying to get the data into exactly the
same format so the uniq command would work. It didn't work perfectly however, as some
albums names were not exactly the same, for example a missing single quote mark.

If we had used email and not instant messaging, it would've taken a lot longer as instant
messaging is almost equivalent to talking as you get an instant response. It is much easier to
use im when dealing with data though because we were able to post/email the results rather
than print out the results.

Obviously, if someone is in a different hemisphere, they are not in the same time zone as you
so this makes it very difficult to contact the other person in real-time. Email is very impersonal
and very slow for fixing a simple problem (like a missing '|' for example). When we would be
working on the solution, the other person would be sleeping and therefore not ale to answer any
questions we may have. This could also stop us working if we can't get a response to a
question. This could result in a whole wasted day. Some compromises may need to be made,
for example staying up late on certain days to instant message with the other person.

Below is the complete list of our music collection after all the above commands:

3 Doors Down - Away From The Sun
3 Doors Down - The Better Life
48 May - The Mad Love
50 Cent - Get Rich Or Die Tryin'
Afroman - The Good Times
Alanis Morissette - Under Rug Swept
All Saints - All Saints
American Hi-Fi - American Hi-Fi
Art Garfunkel - Fate For Breakfast
Ashlee Simpson - Autobiography
Atomic Kitten - Feels So Good
Avril Lavigne - My World
Avril Lavigne - My World (Bonus Disc)
Basement Jaxx - Remedy
Basement Jaxx - Rooty
Basement Jaxx - The Singles
Ben Harper - Diamonds on the Inside
Ben Lummis - One Road
Beyonce Knowles - Dangerously In Love
Billy Joel - The Best of Billy Joel
Blindspott - Blindspott (Bonus Disc)
Blink 182 - Enema of the State
Blink 182 - Take Off Your Pants & Jacket
Blondie - Atomic - The Very Best Of Blondie
Bloodhound Gang - One Fierce Beer Coaster
Bomfunk MC's - In Stereo
Britney Spears - Baby One More Time (1999)
Britney Spears - Britney (2002)
Britney Spears - In The Zone
Britney Spears - Oops!...I Did It Again (2000)
Bryan Adams - So Far So Good
Bus Stop - Kung Fu Fighting
Carly Binding - Passenger
Carpenters - Carpenters (1971)
Carpenters - Close To You
Cat Stevens - Remember
Cat Stevens - The Very Best of Cat Stevens
Che Fu - Navigator
Chemical Brothers - Surrender
Christina Milian - It's About Time
Christmas - Christmas Hits 60 Festive Favourites (3cds)/cd1
Christmas - Christmas Hits 60 Festive Favourites (3cds)/cd2
Christmas - Christmas Hits 60 Festive Favourites (3cds)/cd3
Christmas - Now! The Christmas Album/Disk 1
Christmas - Now! The Christmas Album/Disk 2
Christmas - Songs For Christmas 2004
Christmas - The Best Christmas Album In The World Ever CD1
Christmas - The Best Christmas Album In The World Ever CD2
Coldplay - X&Y
Compilations - 32 Ones on One - Radio 1FM's 25th Birthday - Disc 1
Compilations - 32 Ones on One - Radio 1FM's 25th Birthday - Disc 2
Compilations - Big Day Out 05
Compilations - Lazy Sunday 2
Compilations - Lazy Sunday 4
Compilations - Now That's What I Call Music 16
Compilations - Now That's What I Call Music 17
Compilations - Now That's What I Call Music Vol 3
Compilations - The Rhythm Vol 22
Compilations - Unleashed
Concord Dawn - Uprising