

Coding Assignment

Regarding the coding assignment:

The assignment is more than just getting the assignment to work we are looking for qualitative things too (e.g. does one handle exceptions, does one write simple code etc)

In the end we would like to see what the individual considers to be a good solution and want to see if it is aligned with our understanding.

One may do it in any language you prefer as long as you provide us with the source code and notes on how to run it.

We would prefer if the source was sent to us via **GitHub** or **BitBucket** or some other code repository store.

Please see below for details.

Good luck!

Please write a program to simulate a twitter-like feed. Your program will receive two seven-bit ASCII files. The first file contains a list of users and their followers. The second file contains tweets. Given the users, followers and tweets, the objective is to display a simulated twitter feed for each user to the console.

The program should be well designed, handle errors and should be of sufficient quality to run on a production system. Indicate all assumptions made in completing the assignment.

Each line of a well-formed user file contains a user, followed by the word 'follows' and then a comma separated list of users they follow. Where there is more than one entry for a user, consider the union of all these entries to determine the users they follow.

Lines of the tweet file contain a user, followed by greater than, space and then a tweet that may be at most 140 characters in length. The tweets are considered to be posted by the each user in the order they are found in this file.

Your program needs to write console output as follows. For each user / follower (in alphabetical order) output their name on a line. Then for each tweet, emit a line with the following format: <tab>@user: <space>message.

Here is an example. Given user file named user.txt:

Ward follows Alan

Alan follows Martin

Ward follows Martin, Alan

And given tweet file named tweet.txt:

Alan> If you have a procedure with 10 parameters, you probably missed some.

Ward> There are only two hard things in Computer Science: cache invalidation, naming things and off-by-1 errors.

Alan> Random numbers should not be generated with a method chosen at random.

So invoking your program with user.txt and tweet.txt as arguments should produce the following console output:

Alan

@Alan: If you have a procedure with 10 parameters, you probably missed some.

@Alan: Random numbers should not be generated with a method chosen at random.

Martin

Ward

@Alan: If you have a procedure with 10 parameters, you probably missed some.

@Ward: There are only two hard things in Computer Science: cache invalidation, naming things and off-by-1 errors.

@Alan: Random numbers should not be generated with a method chosen at random.