

Python File Reader

Read in a file of the form:

ID date-time string1 string2 string3

ID is a positive integer, date-time is a string without spaces, and the other three strings may or may not have spaces. But if they do have spaces, they will have double quotes around them. Double quotes in a string can be escaped with a backslash. The fields are space separated (possibly with multiple spaces), and the records are terminated with a newline character. There may be duplicated records, in which case both should be stored. All five values must be present for a row to be valid.

For example:

```
7 2016-06-10-17:53:22 "A quoted string we don't care about" "The string we do
care about." "Another string we don't care about with escaped\" \" quotes."
8 2016-06-10-17:53:22 Str1 Value Str3
8 2016-06-10-17:53:22 Str1 Value Str3
8 2016-06-10-17:53:22 Str1 Value2 Str3
9 2016-06-10-17:53:22 Str1 Value2 Str3
-1 2016-06-10-17:53:22 "This line is invalid" Str2 Str3
10 2016-06-10 17:53:22 "Also invalid" Str2 Str3
10 2016-06-10-17:53:22 "Also invalid" Str2
```

We want to store the ID value and the string2 value in a local memory data structure, ideally with fast lookup and insert. Invalid rows should not be stored, but a count of the total number of invalid lines should be printed out after reading the whole file.

Now, prompt the user on the command line (using input, raw_input or the equivalent) for a comma separated list of ids. For each id in that list, print out all of the id and string2 values from records that have that id. So, with the above example, an input of: 9,8 should yield:

```
9 Value2
8 Value
8 Value
8 Value2
```

If an id has multiple records, they should be printed out in the order that they were encountered in the original file.

Don't use anything that is not in the standard libraries.