RegEx Exercises for the Class

Note: These exercises are also described in regex_exercises.py

Exercise: Parse the title and author from 'The Stone Sky, by N.K. Jemisin'
Note: This is similar to the 'Jack and Jill' parsing example in regex_demo.py
Expected Result:
- Title: 'The Stone Sky'
- Author: 'N.K. Jemisin'

Exercise: Parse the title and author from '   The Stone Sky, by N.K. Jemisin'
Note: adding whitespace at the start of the line
Expected Result:
- Title: 'The Stone Sky'
- Author: 'N.K. Jemisin'

Exercise: Parse the title, author, and publisher from the line '   The Stone Sky, by N.K. Jemisin (Orbit)'
Note: adding the publisher
Expected Result:
- Title: 'The Stone Sky'
- Author: 'N.K. Jemisin'
- Publisher: 'Orbit'

Exercise: Parse publishers from a variety of lines
Note: adds metacharacters to the pattern string

Input String	Expected Result
' (Orbit)'	'Orbit'
' (Tor.com Publishing)'	'Tor.com Publishing'
'(Uncanny, March/April 2017)'	'Uncanny, March/April 2017'
'(Harper Voyager / Spectrum Literary Agency)'	'Harper Voyager / Spectrum Literary Agency'
'(Twelfth Planet Press)'	'Twelfth Planet Press'

Exercise: Parse '"And Then There Were (N-One)," by Sarah Pinsker (Uncanny, March/April 2017)'
Note: adding metacharacters to the title
Expected Results:
- Title: 'And Then There Were (N-One)'
- Author: 'Sarah Pinsker'
- Publisher: '(Uncanny, March/April 2017)'

Exercise: Parse 'Binti: Home, by Nnedi Okorafor (Tor.com Publishing)'
Expected Results:
- Title: 'Binti: Home'
- Author: 'Nnedi Okorafor'
- Publisher: 'Tor.com Publishing'

Exercise: Parse '"Children of Thorns, Children of Water," by Aliette de Bodard (Uncanny, July-August 2017)'

Note: Adding a comma to the tile adds a complication because a comma is part of our separator pattern. You will need to use a negative lookahead assertion which you can read about here: https://docs.python.org/2/howto/regex.html

Expected Results:

- Title: 'Children of Thorns, Children of Water'
- Author: 'Aliette de Bodard'
- Publisher: 'Uncanny, July-August 2017'

Exercise: Parse '   Luminescent Threads: Connections to Octavia E. Butler, edited by Alexandra Pierce, and Mimi Mondal (Twelfth Planet Press)'

Note: Adding a new, and optional, element to the separator pattern. Also adding a second author

Expected Results:

- Title: 'Luminescent Threads: Connections to Octavia E. Butler'
- Author: 'Alexandra Pierce, and Mimi Mondal'
- Publisher: 'Twelfth Planet Press'

Exercise: Write a pattern that can parse all these strings. That is, the same pattern should work on 'The Stone Sky, by N.K. Jemisin' and '   Luminescent Threads: Connections to Octavia E. Butler, edited by Alexandra Pierce, and Mimi Mondal (Twelfth Planet Press)' and each string in betweenFor

Exercise: parse title, author, and publisher for each title in hugo_2018.txt