CS1400: Name flipper

CONGRATULATIONS !!! You have just been hired by the ABC Software Developement Company. Your first assignment is to write a name flipper function for use in several larger systems. This function is called nameFlipper(). It has one parameter (name). This function takes a name like Bill Salter and converts it to Salter, Bill.

Assignment

Write the function as described above. Also write a main() function that tests the nameFlipper() function. The following three tests must be passed before the function is implemented:

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>nameFlipper(&quot;Bill Salter&quot;)</td>
<td>&quot;Salter, Bill&quot;</td>
</tr>
<tr>
<td>nameFlipper(&quot;Michael Green&quot;)</td>
<td>&quot;Green, Michael&quot;</td>
</tr>
<tr>
<td>nameFlipper(&quot;J Graff&quot;)</td>
<td>&quot;Graff, J&quot;</td>
</tr>
</tbody>
</table>

Pseudo Code

```plaintext
nameFlipper(name)
1.  find the space in the name
2.  last is everything to the right of the space
3.  first is everything to the left of the space
4.  return last", "+first

main()
1.  if nameFlipper("Bill Salter") is "Salter, Bill"
   print "Bill Salter passed"
   otherwise
   print "Bill Salter Failed"
2.  Do the same for "Michael Green"
3.  Do the same for "J Graff"
```

Potential Sessions

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bill Salter</td>
<td>passed</td>
</tr>
<tr>
<td>Michael Green</td>
<td>passed</td>
</tr>
<tr>
<td>J Graff</td>
<td>passed</td>
</tr>
</tbody>
</table>

Additional Challenges

Support all the above plus a three line name:
nameFlipper("Billy Bob Martin")->"Martin, Bill Bob"

Support all the above plus a title:
nameFlipper("Sir Alfred Dole")=>"Dole, Alfred Sir"
nameFlipper("Sir Alfred the Red")->"Red, Alfred the Sir"
nameFlipper("James Foster Jr.")->"Foster, James Jr."
nameFlipper("Billy Bob Martin Sr.")->"Martin, Billy Bob Sr."

Do not forget to include tests in your main() function to make sure everything works.

Show Off Your Work

To receive credit for this assignment, you must show your source code and demonstrate your running program.

Ask your instructor who they would like you to show the assignment to.