

HW4a

Each question is worth 2 points. Feel free to use your computer to verify your answers.

For the following questions, use this string and code. Indicate if there are any leading or trailing spaces.

```
import re
str = '### Subject: scuba diving at... From: steve.millman@asu.edu Body: Underwater, where it is at'
match = re.search(r'XXX',str)
if match:
    print(match.group())
else:
    print('did not find')
```

1. Replacing 'XXX' with ':.*:', what prints out? _____
2. Replacing 'XXX' with 'st\S*', what prints out? _____
3. Replacing 'XXX' with ':.*?:', what prints out? _____
4. Replacing 'XXX' with '[\w]*at\$', what prints out? _____

For the following questions, there is a string called my_text. You do not know the contents of my_text or how many words, sentences, or paragraphs it contains. You will provide the code to replace XXX to find the first instance of the requested text within my_text.

```
import re
match = re.search(r'XXX',my_text)
```

How would you replace XXX to find:

1. The shortest text between '<' and '>' including the angle brackets?

2. The longest text between '<' and '>' including the angle brackets?

3. A field of numbers if it is between MOD and X. For example, if MOD2357X is in the string, we want 2357. This should work for any number, not just the example number.
