

CS 149: Programming Fundamentals James Madison University Coding Exam #2 Fall 2015

This work complies with the JMU Honor Code. I have neither given nor received unauthorized assistance, and I will not discuss the exam contents with anyone who has not taken it for credit.

Name: _____ Signature: _____

Tweet Tester

Twitter is an online social networking service that enables users to send and read short 140-character messages called tweets. You have been chosen to help make a custom Twitter app for JMU students.

For this exam, you need to create one program from scratch: **tweet.py**. The program must implement the **stats** function described below. At the end of (and during) the exam, you will submit this file via <https://gradescope.com>. You may submit as many times as you like; only the last submission will be graded.

The stats function takes a single string parameter that represents a tweet. It returns a string in the format "%d-%d-%d" representing the number of mentions, hashtags, and links in the given tweet.

- Every mention will start with the '@' character and have at least one non-space or non-tab character following it (e.g., @mayfiecs).
- Every hashtag will start with the '#' character and have at least one non-space or non-tab character following it (e.g., #cs149).
- All links will start with the string "http://". Twitter ignores case, so HTTP and http are counted the same. You do not need to check for any characters following "http://".

You do not need to write documentation comments but be sure to include your name and today's date)

For the sample string:

```
"#hashtag @chaoaj here's # @ HTTP:// http://www.jmu.edu my awesome tweet to http://"
```

stats should return "1-1-3" as a string

It's strongly recommended that you complete the exam in this order:

1. Write documentation and stubs for all classes and methods. [10 min]
2. Implement your test cases; they should all fail at this point. [10 min]
3. Submit to Gradescope to make sure that it compiles and runs. [5 min]
4. Implement/test mentions and hashtags; submit to Gradescope. [15 min]
5. Implement/test http links ignoring case; submit to Gradescope. [10 min]

You may use the back of this sheet for scratch paper. Good luck!