

Things you should know!

- Pick up an ICI sheet!



Week 3!

CMSC3890: The Coding Interview

Today

- String Manipulation
- Interview Demo
- In Class Interviews (ICI)



CamelCase

- It is a concatenation of one or more *words* consisting of English letters.
- All letters in the first word are *lowercase*.
- For each of the subsequent words, the first letter is *uppercase* and rest of the letters are *lowercase*.



Problem 1

- Given a String `s`, return the number of words in `s`
- Can assume `s` is properly formatted.
- Examples:
 - `"cmcs389IsTheBestClassEver"` → 6
 - `"codingrocks"` → 1
 - `""` → 0



Coding Time!

```
public int camelCase(String s) {
```

```
....
```

```
}
```



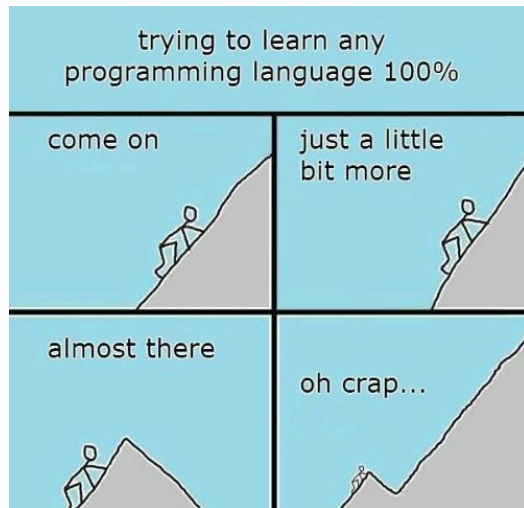
Coding Time!

```
public int camelCase(String s) {  
    return s.length() - s.replaceAll("[A-Z]", "").length() + 1;  
}
```



Side Rant/Maria's Thoughts of the Day

- Find YOUR programming language!
- Know what it can do (even if you do not always remember how to do it)



Problem 1.2

- Given a String `s`, return the number of words in `s`
- `s` may not be properly formatted
 - `s` will be correct camelCase
 - `s` may contain “words” that are not real words
- Return -1 if `s` is not properly formatted
- Examples:
 - “cmcs3890IsTheBestClassEver” → 6
 - “codingrocks” → 1
 - “” → 0
 - “helloWold” → -1 (Wold is not a word)



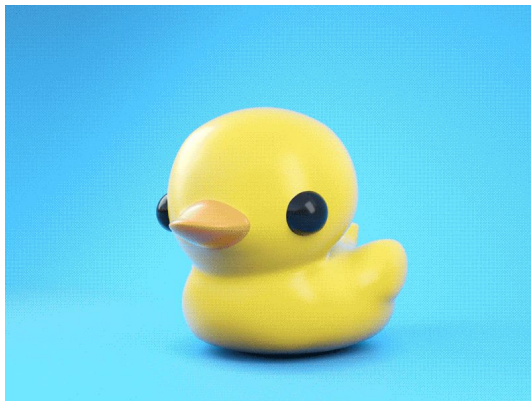
Example Coding Interview

- Brute force solution
- Analyze time and space complexity
- Improve solution!
- Test cases!



Example Coding Interview

- Make sure you understand the problem (Always ask for clarification)
- Explain your thought process before beginning to code
- Explain what you are doing while you are coding
- Walk your interviewer through your test cases
- Treat your interviewer like a rubber duck! (They will probably be more helpful)



In-Class Interviews

- Match up with someone who has a DIFFERENT question than you!
 - (Hint: There are only two questions to be asked...)



Reminders

- Fill out feedback form at <http://ter.ps/f7h> !
- Career Fair!!!
 - February 20, 2018
 - 4PM - 8PM
 - Seniors start at 3PM
 - COLLEGE PARK MARRIOTT HOTEL & CONFERENCE CENTER
 - <https://cs.umd.edu/cscareerfair/students> for more information!



Homework Due for Next Week

https://github.com/UMD-CS-STICs/3890spring18/blob/master/HW2_Strings.md



More Practice!

ter.ps/strmpeasy01

ter.ps/strmpeasy02

ter.ps/strmpeasy03

ter.ps/strmpeasy04

ter.ps/strmpeasy05

ter.ps/strmpeasy06

ter.ps/strmpmed01

ter.ps/strmpmed02

ter.ps/strmpmed03

ter.ps/strmpmed04

ter.ps/strmpmed05

ter.ps/strmpmed06

ter.ps/strmpmed07

ter.ps/strmpmed08

ter.ps/strmpmed09

ter.ps/strmpmed10

ter.ps/strmpmed11

ter.ps/strmphard01

ter.ps/strmphard02

ter.ps/strmphard03

ter.ps/strmphard04

ter.ps/strmphard05

ter.ps/strmphard06

ter.ps/strmphard07

