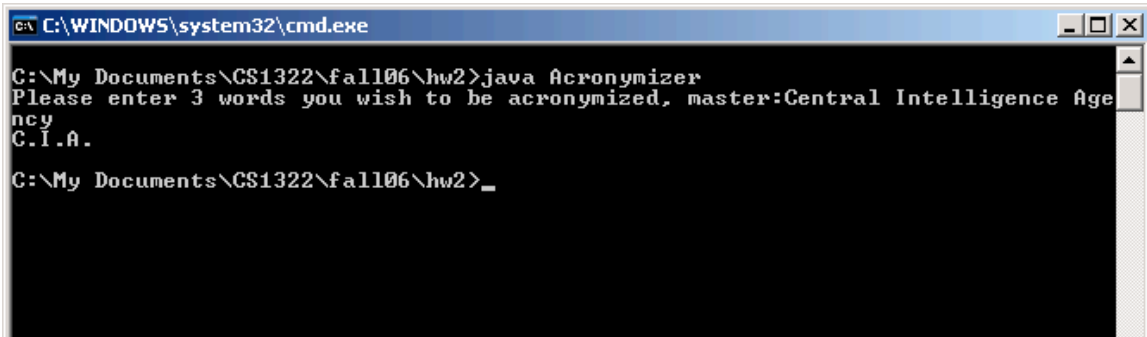


# CS1322 Homework 2

(Due: Tuesday, Sep.6, 2005)

## 2.1: Acronymizer

Create a class, called **Acronymizer**, with a main method that makes acronyms out of words. In the end, you'll be able to run it and it will display the following when run in a command prompt:



```
ca C:\WINDOWS\system32\cmd.exe
C:\My Documents\CS1322\fall06\hw2>java Acronymizer
Please enter 3 words you wish to be acronymized, master:Central Intelligence Age
ncy
C.I.A.
C:\My Documents\CS1322\fall06\hw2>_
```

Let's break it down to the three main steps:

- Prompt the user to enter 3 words. (In the example, the prompt is "Please enter 3 words you wish to be acronymized, master:", but you can use whatever you want. I prefer smarmy computer programs.)
- Read three words from the user.
- Print out the acronym

### Notes

Recall that you need to create a java file, called `Acronymizer.java`. This file name is case-sensitive, and must match the name of the class declared within the file. You'll need to import `java.util.Scanner` for this class to work.

### Detailed Requirements

- You only need to handle three words, all on one line, with spaces in between each word. You don't have to account for any deviant input in any way: we'll only test your code with valid, three-word entries.
- Your acronym must be **all uppercase**, even if the user enters words that begin with lowercase letters.
- Your acronym must have **periods after each letter**.

## 2.2: String Mangler

Create a class, called **StringMangler**, with a main method that will do the following:

- Read a string from the user using a Scanner. The string should be an entire line (including spaces).
- Pick a random position in the String (i.e., pick a random integer number in the range of String indexes). Let's call this random position “pos”.
- There is a character at position “pos” in the string. Produce a new string that is like the old one, but where every occurrence of this character in the string is replaced with “\*”, except for the one at position “pos”.
- Print out the new string, as well as the number “pos”.

For example, suppose that the program gets as input the string “Georgia Institute of Technology” and that the randomly selected position (“pos”) is equal to 18. The character at index 18 in the string is “o” (more precisely, the “o” in “of”). Therefore, StringMangler should replace all occurrences of “o” in the input string, except for the one at position 18, with “\*”. This should result in the following output:

```
Ge*rgia Institute of Techn*l*gy  
pos = 18
```

Note that you may need to split the string and concatenate it again, to avoid replacing the “o” in “of”.

### Turn-in:

All you need to turn in is Acronymizer.java and StringMangler.java (no class files, please!).