

CS 180 Problem Solving and Object Oriented Programming

Fall 2011

Homework #5

Assigned Monday September 19, 2011

To be turned in during your recitation session (September 29 or 30, 2011)

Q1. Solve Exercise 4.2 from the textbook.

Q2. Write a program in Java that performs the following tasks.

1. Read from the console three integers and save them in variables named a, b, and c.
2. Find the maximum of a, b, and c.
3. Display on the console the maximum found in step 2.

Q3. Write a program in Java that performs the following tasks.

1. Read a string of characters from the console.
2. Extract each word in the string and display it on the console on a separate line. For example, if the input from the console is

`H! How are you, buddy?`

then the output of your program should be

```
Hi!  
How  
are  
you,  
buddy?
```

Assume that in the input string (a) words are separated by **exactly** one space character and (b) any non-alphabetic characters such as “?”, “!” and “,” are included in the word that immediately precedes them. (For example, as in the string above, the exclamation character “!” is included with the word “Hi”, the comma is included with “you”, and the question mark (?) is included with “buddy”).

You may use the following methods available in the `String` class: `charAt()` and `equals()`.

<End of Homework 5>