



Assignment 9/1001₂/11₈/9₁₆ Version: 2.0

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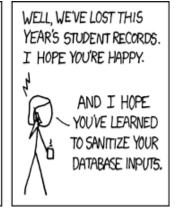
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Strings









String*Arrays*ArrayList*Client Server*Artificial Intelligence*Inheritance*Files*Video Games*Short circuit evaluation

Write a class that features a series of String methods

There is a file called StringPractSkeleton.zip on the website Download the StringPractice Skeleton from website Expand the Skeleton in your account Look for the file called StringMethods.java

Each of the methods is "stub coded", which means the name and inputs and return values are set up but the details are missing.

You must finish them one by one.

You can test them using the Graphical User Interface. By clicking the buttons, you will see if your result is correct!!

To finish the compareTo, you will need to add some code to the Frame

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- 1. Have the user enter a song title. Count the number of words in the song title
- 2. Build a String of Pascal's Triangle according to the number of rows inputExamples;

Input 4:

Input 5:

				1				
			1		1			
		1		2		1		
	1		3		3		1	
1		4		6		4		1

For #'s 3 and 4, you will be connecting to the internet to download the html text of a web site. A method inside StringMethods.java called openURL will handle this for you!!!

- Given a typical html file, write a method that returns the title of the page
 Most pages have a title
 (If no title is found, please return "No Title" so the GUI can display the appropriate
 message
- **4.** Given a typical html file, write a method that returns an array of strings, each array element contains one of the hyperlinks on the page

public String[] findLinks(String page)

NOTE: You will have to count the links first to set the array size or return an ArrayList to properly handle the exact number of links(requires change to Frame if you want to return an ArrayList)

For the page

http://minerva.union.edu/andersoc

You should get 21 links

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"mailto:andersoc@union.edu"
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- 5. Allow a user to enter two strings, print out the result of the first compareTo'd the second
- 6. Prompt the user for an alpha-numeric password.
 - a. Then decide if the password is at least 6 characters. If the password is less than 6 characters, give the user an error message. If the password is greater than or equal to 6 characters and has at least one non alpha, return true and a happy face will appear in the GUI

[&]quot;mailto:andersoc@union.edu"

[&]quot;Abnormal_Psychology.html"

[&]quot;Psychotherapy.html"

[&]quot;PractI.html"

[&]quot;TestAssmt.html"

[&]quot;Clinical Neuropsychology.html"

[&]quot;PractII.html"

[&]quot;lab.html"

[&]quot;Clinical Work.html"

[&]quot;CV_AndersonHanley_for_web.pdf"

[&]quot;Personal Info.html"

[&]quot;clin_psy_career_info.pdf"

[&]quot;internship leads.pdf"

[&]quot;http://www.union.edu/academic_depts/psychology/students/_docs/Internship_H andbook.pdf"

[&]quot;http://www.union.edu/StudentLife/BeckerCareerCenter/Students/Internships/psy chology-and-human-services-internships-job-links.pdf"

[&]quot;advising_clinical_psych.pdf"

[&]quot;ANST_chapter.html"

[&]quot;http://minerva.union.edu/andersoc/"

[&]quot;http://www.union.edu/PUBLIC/PSYDEPT/"

[&]quot;http://www.union.edu"%20CAD%20pd1.htm"

- b. Also confirm that at least one of the characters is non alphabetical (symbol or number) HINT: **Character.isLetter(text.charAt(i))** is helpful here!!!!
- c. If the character is not sufficient length or doesn't contain at least one nonalphabetical character, then sad face (you just need to return false)

Project Name	AP Student String SolutionNB			
Class 1 Name	StringApp			
Class 2 Name	StringMethods			
Class 3 Name	StringFrame			

Rubric				
Song Title	20			
Pascal's Triangle	35			
Get the Title	20			
Get the Links	40			
Compare To	10			
Password Checker	15			
Comments (finish any unfinished pre or post conditions) and add comments to your String Methods	10			
TOTAL	150			

^{*}Recursion*Linear Search*Binary Search*Grid World Case Study*File Processing *nlogn*Hangman*