

2. Write a method that calls the method from a to determine if a word is a palindrome (a palindrome is a word that is the same backwards as forwards) Make sure you strip punctuation and spaces from the original String!!!

Punctuation that needs removing(minimum)
. (need \\. for this one, thanks to Jason Blowers, 2017)
"(Double Quote)
,(Comma)
' (Apostrophe)
spaces
But, how oh Jedi Master do I remove punctuation?

I am glad you asked.

There is a nifty command in the String class called replaceAll You say something like s = s.replaceAll("",""); //replace spaces s = s.replaceAll("\\.",""); //special escape sequence to remove periods

All of the periods and spaces will be replaced by nothing, which means you want have any periods.

But how the heck do I replace a " since it requires a "? Yeah, you need an escape sequence to handle a character like " Use \" to indicate " Use \\ to indicate a single \ Use \' to indicate a single '

Examples: Go hang a salami, I'm a Lasagna Hog gohangsalamiimalasagnahog

Palindrome****Woo Hoo|

Testing this bad boy would be really nice to be able to have a whole bunch of phrases in a text file and then blasting through that file, concluding that a phrase is a palindrome or isn't.

To this end, you can use the cookbook section on redirecting System.in and System.out.

Use the text file from my web site to process the file of possible palindromes

Print the phrase and then either *No Palindrome* or

Make sure you have a menu that allows for 4 options

- 1 = Reverse
- 2 = IsPalindrome
- 3 = Batch Is Palindrome (reads in a text file of phrases, testing all)
- 4 = Quit
- 3. Create a towers of Hanoi program similar to the example C++ program provided by your instructor
 - a. Your game must allow between 3 and 8 disks
 - b. Must move from original tower to one of the other towers
 - c. Must be able to be reset.

(NOTE: rendering a tower is awkward since you will find yourself having to empty all of the discs off of a stack to a temporary stack and then back)

d. BONUS: Provide an Undo Feature for your Towers of Hanoi Program

DO NOT USE THE Stack THAT SHIPS WITH THE STANDARD JAVA LIBRARY, MAKE A Stack.java file for the interface and an ArrayListStack.java THAT HAS THE CODE FROM THE NOTES TO IMPLEMENT A STACK

Tower	Represents an individual Tower	
	from notes	
ArrayStack	described by College Board Contains Stack Implementation	
Stack	Contains Stack Interface as	
Class	Purpose/Methods	
	palindrome)	
	and test to see if a String is a	
	an ArrayListStack to reverse a String	
Class 3 Name	StringRevAndPal.java (This class uses	
	of Stack from class notes)	
Class 2 Name	ArrayListStack.java(implementation	
Class 1 Name	Stack.java (interface from class)	
Project Name 1	StackPalindromeExample	

£\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	¥\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
	Some possible methods are;
	addDisk()
	removeDisk()
TOHModel	Contains an array of Towers
	Some possible methods are;
	moveDisk(int from, int to)
	checkForWin()
	newGame()
ТОНАрр	Makes an instance of the Frame
TOHFrame	Contains this ;
	TOHModel tm = new TOHModel();
	And 3 buttons for movement
	Also has an instance of the
	HanoiPanel
HanoiPanel extends JPanel	Tower[] towArray; //Object that
(This is created and owned by the	links //HanoiPanel and Tower
TOHFrame)	
	public HanoiPanel(Tower[] t) {
	towArray = t;
	}
	public void
	paintComponent(Graphics g) {
	super.paintComponent(g);
	//Let's paint the three towers
	paintTowers(g);
	}
	public void paintTowers(Graphics
	g) {
	ArrayListStack temp = new
	ArrayListStack();
	more logic needed to render
	towers
Ru	ıbric
Reverse	25
Palindrome	15
Towers of Hanoi	100
Towers of Hanoi GUI BONUS	25

Rubric				
Reverse	25			
Palindrome	15			
Towers of Hanoi	100			
Towers of Hanoi GUI BONUS	25			

Comments	10	
TOTAL without Bonus	150	

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