

Palindrome, Word and Character Count

Objectives: To write an x86 Assembly Language to perform Palindrome and count the number of characters and words for the given input.

Deadline: October 24, 2014 (Friday)

Filename: SurnameFirstCharacterofyourName.asm (e.g., uyr.asm)

Submission: email to sensei88@yahoo.com (under Prof. Uy); mac.cordel@delasalle.ph (under Prof. Cordel) on or before 1159pm

Specifications:

- Clear Screen.
- Input: String of characters (maximum of 80 characters)
- Error checking: null input, max input, invalid terminator
- Output #1: Output the palindrome of the given string if the terminator is “!” Output the string “as is” if the terminator is “.” If the terminator is neither a “!” or “.” it is considered as an invalid terminator. Note that terminator is NOT part of the output.
- Output #2: Output the number of words of the given string
- Output #3: Output the number of characters of the given string (exclude terminator)
- Prompt the user whether the program will be executed again.
- See the example below for the output.

*** Sample Run***

```
Enter string: Hello World!
Palindrome: dlroW olleH
Word: 2
Count: 11

Enter string: Hello Archorg.
Palindrome: Hello Archorg
Word: 2
Count: 13

Enter string: Hello Sir?
Error: invalid terminator, please try again

Enter string:
Error: null input, please try again

Enter string:aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Error: exceed maximum number of characters, please try again
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Rubrics:

1.) Clear Screen	1 pt.	
2.) Enter string	2 pts.	
3.) Check for error, with appropriate error message	5 pts.	
4.) Output Palindrome “!”	10 pts.	
5.) Output Normal “.”	10 pts.	

5.) Output word count	10 pts	
6.) Output character count	10 pts	
7.) Do you want to continue?	2 pts.	
	50 pts.	