A palindrome is a word, phrase, verse, or sentence which reads the same backward or forward. All punctuation, including spaces, is ignored when deciding whether or not you have a palindrome.

Write a C++ program that inputs a line of text from the keyboard and outputs the appropriate message, either "This is a palindrome." or "This is not a palindrome."

Requirements:
1. Include a header comment that gives the following information:
   
   // Project name
   // your last name, first name
   // 110B - your section number
   
   // Brief statement of the program's task

2. Your program should consist of main() and one other function. The second function returns a bool type and take a string as an argument. It returns true if the string argument is a palindrome and false if the string argument is not a palindrome. The string should not be changed by the function.

   main() should contain a simple loop that allows the user to enter a string, exits the loop if the user presses <Enter>, outputs the string, calls the second function, and outputs the appropriate message based on the return value from the function.

3. Use good programming style, that is, vertically align matching braces, code nothing but a brace on a source line, use proper indentation, and use whitespace judiciously.
4. Generally, format your report as follows. Using all of the following test data which is shown in **bold**.

Enter a string (<Enter> to Quit): a
a: This is a palindrome.

Enter a string (<Enter> to Quit): dog
dog: This is not a palindrome.

Enter a string (<Enter> to Quit): dod
dod: This is a palindrome.

Enter a string (<Enter> to Quit): Abba
Abba: This is a palindrome.

Enter a string (<Enter> to Quit): dogs
dogs: This is not a palindrome.

Enter a string (<Enter> to Quit): abCBA
abCBA: This is a palindrome.

Enter a string (<Enter> to Quit): axCBA
axCBA: This is not a palindrome.

Enter a string (<Enter> to Quit): Live not on evil!
Live not on evil!: This is a palindrome.

Enter a string (<Enter> to Quit): 'Tis Ivan on a visit.
'Tis Ivan on a visit.: This is a palindrome.

Enter a string (<Enter> to Quit): acxxdb
acxxdb: This is not a palindrome.

Enter a string (<Enter> to Quit): Madam, I'm Adam.
Madam, I'm Adam.: This is a palindrome.

Enter a string (<Enter> to Quit): A man, a plan, a canal: Panama!
A man, a plan, a canal: Panama!: This is a palindrome.

Enter a string (<Enter> to Quit):