### SIENA COLLEGE

**22nd Annual**

### High School Programming Contest

##### April 3, 2009

###### **Problem #3: Reversing Strings**

Background Information: A *palindrome* is a word, phrase, or sentence that reads the same backwards and forwards. For example, the word “radar” is a palindrome. For this problem, you must write a program that reads a string of characters and prints whether or not the entire string is a palindrome. Your program should ignore all blanks, numbers, punctuation and any other non-letter characters, and should be case insensitive (i.e., it should not care if characters are capital letters or small letters). For example "5R3a dAr!" should be considered to be a palindrome.

###### Programming Problem:

Input: One string no greater than 100 characters.

Output: “Yes” if the input string is a palindrome; “No” otherwise.

###### Example 1: Input: radar

###### Output: Yes

###### Example 2: Input: radiar

###### Output: No

Example 3: Input: Able was I ere I saw Elba!

Output: No

Example 4: Input: Han 258907=-=5748-087-48n123526537….ah256830

Output: Yes

A POEM

Mood's mode!

Pallas, I won!

(Diaper pane, sold entire.)

Melt till ever sere, hide it.

Drown a more vile note;

(Tar of rennet.)

Ah, trowel, baton, eras ago.

The reward? A "nisi." Two nag.

Otary tastes putrid, yam was green.

Odes up and on; stare we.

Rats nod. Nap used one-erg saw.

(May dirt upset satyr?)

A toga now; 'tis in a drawer, eh?

Togas are notable.

(Worth a tenner for Ate`.)

Tone liver. O Man, word-tied I.

Here's revel!

Little merit, Ned? Lose, Nap?

Repaid now is all apedom's doom.

-- Hubert Phillips: