

CPS 171 Machine Problem 1 Winter 02 – Due Date 01/30/2002

This assignment is to give you practice using string constants, variables and some of the functions provided with the string class. Your assignment will be to consider the correct spelling in the phrases.

Write a program to do the following actions:

1. Declare 2 string constants called *PHRASE1* and *PHRASE2*
2. Initialize *PHRASE1* to the string "Is the word height spelled heighth?" and *PHRASE2* to "Or should heighth be spelled height?"
Be sure to match the spacing, punctuation and capitalization exactly.
3. Print out the two phrases.
4. Print out the number of characters in each phrase by using the function *length*.
5. Find and print the position in each of the phrases of the first occurrence of the string "heighth". Use the function *find* here.
6. Declare a string variable called *corrected_phrase2* and assign it using concatenation of substrings from the original *PHRASE2* so that it contains the string "heighth should be spelled height."

Print out the *corrected_phrase2*. Note that you **must** use the *substr* function with the appropriate positions (from step 5 above) to receive full credit for this step.

Your program must be written in good style with comments, indentation and spacing to make it readable. The output should have a title line containing your name, and each of the items printed should be explained with string constants. Make your output easy to read by using appropriate spacing and blank lines.

Hand in a printed copy of the program and a printed output.

A sample output follows:

This output belongs to Janet Remen
MP1 Spelling Correction Program

The first phrase is: Is the word height spelled heighth?
The phrase has 35 characters

The second phrase is: Or should heighth be spelled height?
The phrase has 36 characters

The first occurrence of "heighth" in phrase1 is at position 27
The first occurrence of "heighth" in phrase2 is at position 10

The corrected phrase is:
heighth should be spelled height.

Press any key to continue