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| **Part B: Pig Latin** |
| **Step 1:** Requirements |
| Write a program that will input a phrase and convert it to pig latin. Put each word in a separate element of a string array. Remove the first letter from each word and concatenate it to the end of the word followed by “ay.”  Sample Output from Program:  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\* You will be prompted to enter a string of \***  **\* words. The string will be converted into \***  **\* Pig Latin and the results displayed. \***  **\* Enter as many strings as you would like. \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **Enter a group of words or ENTER to quit: Computer Programming is fun to learn!**  **Original words: Computer Programming is fun to learn!**  **New Words: omputercay ogrammingpray isway unfay otay earnlay!**  **Enter a group of words or ENTER to quit: Quit**  **Pig Latin Hint:** If a word begins with one or more consonants, move the consonant or consonant cluster to the end of the word. Add the letters "ay" to the end of the word. So, "pig" would be "igpay," and “latin” would be “atinlay.” |
| **Step 2:** Processing Logic |
| Using the pseudocode below, write the code that will meet the requirements.  Main function  Display the heading  While the condition is true  Prompt the user for group of words or Enter to quit  Display original words  Call function pigLatinString( )  End while  pigLatinString( ) function  Declare and initialize string variables len, counter, start, begin, word and newString  While condition is true  Call find() and pass a space and start as parameters and return the returned value  to start  if start equals to string::npos  jump outside the loop permanently  call substr() function  display the word  update newString  increment start by one  assign start to begin  End While  Call substr()  Update newString  Return newString |
| **Step 3:** Create a New Project |
| Create a new project and name it LAB5B. Write your code using the Processing Logic in Part B, Step 2. Make sure you save your program. |
| **Step 4:** Compile and Execute |
| 1. Compile your program. Eliminate all syntax errors. 2. Build your program and verify the results of the program. Make corrections to the program logic if necessary until the results of the program execution are what you expect. |
| **Step 5:** Print Screen Shots and Program |
| 1. Capture a screen print of your output. (Do a PRINT SCREEN and paste into an MS Word document.) 2. Copy your code and paste it into the same MS Word document that contains the screen print of your output. 3. Save the Word document as Lab05B\_LastName\_FirstInitial. |
| **END OF LAB** |