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CSC 242

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**Assignment 5 Pseudocode**

Spell Check Pseudocode

This pseudocode describes how to check the spelling of all words in a file utilizing a dictionary file and outputs all words not in the dictionary.

Declare input-stream variable named dictionary

Open the dictionary file in dictionary

If file doesn’t open:

Output “Unable to open dictionary file”

Define a vector of strings called words

Define a string called word

For each word in the dictionary file:

Append the word to the words vector

Close the dictionary file

Declare input-stream variable named words\_to\_check

Open the file to be checked (“WordsToCheck.txt”) in words\_to\_check

If file doesn’t open:

Output “Unable to open file to check spelling.”

For each word in words\_to\_check:

If the word is not contained in the words vector

Print the word

Country Populations Pseudocode

This pseudocode describes how to read country population data from a file and use it to calculate total population.

Create void function named process\_line:

Purpose: processes line containing country name and population into separate variables

Parameter constant string& named line: the string being processed

Parameter string& named country: name of country in line

Parameter int& named population: population of country

Create istringstream named strm that contains line

Create char variable named ch

For every character in strm

If character is not white space

Append character to country

If character is a white space

Skip to the next non-white space character

If character is not a digit

Append a space to country

Append character to country

Else

Unget the character

Place the whole number into population

Break out of function

Main Function:

Declare input-stream variable named input\_file

Open the world population file (“worldpop.txt”) in input\_file

If the file doesn’t open:

Output “Unable to open world population file.”

Create a string variable named line

Create a floating-point variable named total\_population

For every line in input\_file:

Create a string variable named country

Create an integer variable named population

Make function call to process\_line (line, country, population)

If country is not the European Union

Add population to total\_population

Close the file

Output the total population excluding the European Union