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CSC 242 - Signature Assignment 2

Program: p8.6.cpp

Program will read a specific text file. containing country names and it’s population.

1. open file with country name and population data.
2. check to see if failed to read file, output error message and error out program.
3. initialize vectors to store country name and population. Index will be the same to correlate name and population.
4. initialize variable to store next read character
5. create string to store string of characters extracted.
6. create bool flag for indicating whitespace is reached.
7. While file’s end of file has not been reached
   1. Read a character.;
   2. if character is not whitespace or digit
      1. if whitespace flag is set, but country name is empty, the whitespace flag is set due to newline, clear whitespace flag to false.
      2. if whitespace was a previous character, then add space to country name.
      3. finally, append character to country\_name string.
   3. Else if character is digit:
      1. unget the input.
      2. create temp int to store population and read int from file.
      3. set whitespace to false, if set.
      4. add country’s name string to name vector
      5. add population to pop vector.
   4. else a whitespace is reached, set flag to true.
8. Now that the country name and pop data is loaded
9. for each country\_name
   1. extract the name from country\_names vector
   2. extract the population from country\_pop vector
   3. check if name is equal to “European Union” Skip if true. data is unwanted.
   4. output to console the country name followed by population.