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| Create a C++ console application that will store and retrieve names and addresses in a text file.  The program should do the following.   1. It should accept a series of names and addresses from the console. 2. The user's input should be written to a text file in the CSV format described in the lesson, but do not include the field names in the first row of the file. Use a delimiter to separate the records. 3. Read the records from the text file, and display them in a user-friendly format. 4. Provide a menu to allow the user to append records to the file, display the records, or exit the application.   **Build upon the code below to complete the assignment.**   |  | | --- | | //Specification: Append and display records in a address database  #include <iostream> #include <fstream> #include <string>  using namespace std;  void menu(void); void writeData(void); void readData(void);  const char FileName[] = "TestAddress.txt";  int main () {         menu();         return 0; } //end main  void menu(void) { //allow user to choose to append records, display records or exit the program  }//end menu  void writeData(void){ //Write the Address Info to a file  //loop while user still has data to write to file  //eg outStream<<name<<”#”; //where # is the delimiter  }//end write data  void readData(void){ //read data from a file //use the split function to break a //deliminated line of text into fields  ifstream inMyStream (FileName);  if (inMyStream.is\_open()) {    //set character to use as a line between record displays  string recBreaks = "";  recBreaks.assign(20,'-');    int fieldCount = 0; //keep track of the number of fields read  int recordCount = 1; //keep track of the number of records read    //read the first field  fieldCount = 1;  string fieldBuffer;  getline (inMyStream, fieldBuffer, '#');  while (!inMyStream.eof() ){    //display the field  switch (fieldCount) {  case 1:  cout << recBreaks << endl;  cout << "record # " << recordCount << endl;  cout << "Name...." << fieldBuffer << endl; break;  case 2:  cout << "Street.." << fieldBuffer << endl; break;  case 3:  cout << "City...." << fieldBuffer << endl; break;  case 4:  cout << "State..." << fieldBuffer << endl; break;  case 5:  cout << "Zip....." << fieldBuffer << endl;  fieldCount = 0;  recordCount++; break;  }  //read the next field  getline (inMyStream, fieldBuffer, '#');  fieldCount++;  }  cout << recBreaks << endl;  inMyStream.close();  }//end read data | |
| **Step 2:** Processing Logic |
| Using the pseudocode below, write the code that will meet the requirements.  The pseudocode for the writeData function is shown below.   |  | | --- | | Start        open the text file to append        start do while loop                     Allow user to enter name                     store name (using getline method)                     Allow user to enter city                      store city (using getline method)                      .                      .                      write name, city, etc. to the file        end loop        close the file  End |   The program input should appear similar to this.   |  | | --- | | Append Records  Name..........John Smith Street.........902 Union Ave City............Any Town  State...........TX Zip Code......78552  "Enter another Record? (Y/N) " |   The file structure should look like this.   |  | | --- | | John Smith, 902 Union Ave, Any Town, TX, 79552 Eric Jones, 345 State Way, Fresno, CA, 93432 ... |   The file output should appear similar to the following.   |  | | --- | | Show Records \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Record #1 Name...........John Smith Street..........902 Union Ave City.............Any Town  State...........TX Zip Code......78552 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Record #2 Name...........Eric Jones Street..........345 State Way City.............Fresno State...........CA Zip Code.......93432 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (A)ppend Records, (S)how Records, (E)xit | |