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/* Student Name: Nichole Francoeur
* Lab Assignments: Lab8_02
* Project Name: Numeric Processing
* File Name: numericProcessing.cpp
* Description: Program that will open up the file random.txt and calculate and
display:
*           -number of numbers in the file.
*           -sum of all the numbers in the file.
*           -average of all the numbers in the file.
* Limitations or issues: none.
* Credits: None
*/

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#include <iostream>
#include<fstream> // to open file
using namespace std;

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int main()
{
    int num = 0;
    int lines = 0;
    int sum = 0;

    //opening file
    ifstream my_infile;
    my_infile.open("random.txt");

    if (my_infile)
    {
        // looping through file
        while (my_infile >> num)
        {
            //cout << num << endl;
            lines++;
            sum += num;
        }

        //calculations
        double average = sum / lines;
        cout << "Number of numbers: " << lines << endl;
        cout << "Sum of the numbers: " << sum << endl;
        cout << "Average of the numbers: " << average << endl;

        // closing file
        my_infile.close();
    }
    else
    {
        // error message
        cout << "There was an error opeing the file." << endl;
    }
    system("pause");
    return 0;
}
/*

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Proof
Number of numbers: 200
Sum of the numbers: 105527
Average of the numbers: 527

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Press any key to continue . . .

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