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ASG1

// ASG 1

#include <iostream>

#include <fstream>

#include <vector>

#include <numeric>

using namespace std;

double findAVG(vector<double> const& nbr)

{

if (nbr.empty()) {

return 0;

}

return (accumulate(nbr.begin(), nbr.end(), 0.0)/ nbr.size());

}

// https://www.techiedelight.com/find-average-of-all-values-present-in-a-vector-in-cpp/

int main()

{

double readIn;

double AVG;

ifstream iFile;

ofstream oFile;

oFile.open("AvgFile.txt");

iFile.open("ReadFile.txt");

vector<double> nmbrs;

while(iFile >> readIn)

{

nmbrs.push\_back(readIn);

cout << readIn << endl;

}

AVG = findAVG(nmbrs);

oFile << "Average number is " << AVG << "." << endl;

iFile.close();

oFile.close();

return 0;

}

**References**

[1]"Find average of all values present in a vector in C++ | Techie Delight", *Techie Delight*, 2022. [Online]. Available: https://www.techiedelight.com/find-average-of-all-values-present-in-a-vector-in-cpp/. [Accessed: 22- Aug- 2022].