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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 << endI;
}

AVG = findAVG(nmbrs);

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

iFile.close();

oFile.close();
```

}

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].