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// This program uses hours, pay rate, state tax and fed tax to determine gross
// and net pay.

// Michael Steele

#include <fstream>
#include <iostream>
#include <iomanip>
using namespace std;

int main()
{
        // Fill in the code to define payfile as an input file
        fstream payfile;

        float gross;
        float net;
        float hours;
        float payRate;
        float stateTax;
        float fedTax;

        cout << fixed << setprecision(2) << showpoint;

        // Fill in the code to open payfile and attach it to the physical file
        // named payroll.dat
        payfile.open("payroll.dat",ios::in);

        // Fill in code to write a conditional statement to check if payfile
        // does not exist.
        if(payfile.fail())
  {
                cout << "Error opening file. \n";
                cout << "It may not exist where indicated" << endl;
                return 1;
        }
        else
  {

  }
     cout << "Payrate Hours  Gross Pay      Net Pay"
          << endl << endl;
```

```
        // Fill in code to prime the read for the payfile file.
        payfile >> hours;


    fstream outfile("pay.out",ios::out);

        // Fill in code to write a loop condition to run while payfile has more
        // data to process.
        while(payfile)
        {
                payfile >> payRate >> stateTax >> fedTax;

                gross = payRate * hours;

                net = gross - (gross * stateTax) - (gross * fedTax);

                cout << payRate << setw(15) << hours << setw(12) << gross
                        << setw(12) << net << endl;
      outfile << payRate << " " << hours << " " << gross << " " << net << endl;
                payfile >> hours;
        }


        payfile.close();

        return 0;
}
```