Assign 3c

Eva Najera CISP 360 MW, 1:00 3:50p Spring 2015 Assign 3c

Hierarchy Chart

- 3.0 Payroll Program
 - 3.1 PrintReportHeadings(inout reportfile as file)
 - 3.2 InitializeAccumulators(out numemps as integer, out totreg, totovt, totrate, totgross, totfed, totstate, totSSI, totdefr, totnet as real)
 - 3.3 InputEmployeeData(inout i as integer, record as array[1..MAXEMPS] of EmployeeRecord)
 - 3.4 join_lastfirst(in lastname, firstname as string)
 - 3.5 CalculateGross(in hours, payrate as real, out gross as real)
 - 3.6 split_hours(in hours, out regularHours, ovtHours as real)
 - 3.7 CalculateTaxes(in gross, defr as real, out ft, st, ssit as real)
 - 3.7.1 CalcFedTax(in gross, defr as real, out ft as real)
 - 3.7.2 CalcStatetax(in ft as real, out st as real)
 - 3.7.3 CalcSSItax(in gross, defr as real, out ssit as real)
 - 3.8 AddDetailToAccumulators(inout record as array of EmployeeRecord[1..MAXEMPS], in i as integer, inout numemps as integer, totrate, totreg, totovt, totgross, totfed, totstate, totSSI, totdefr, totnet as real)
 - 3.9 SortbyLastName(inout record as array[1...MAXEMPS] of EmployeeRecord, in start, finish, as integer)
 - 3.10 PrintSummaryReport(in totreg, totovt, totrate, totgross, totfed, totstate, totSSI, totdefr, totnet as real, numemps as integer, reportfile as file)
 - 3.11 PrintDetailReport(inout reportfile as file, record as array[1..MAXEMPS] of EmployeeRecord, i as integer)
 - 3.12 PrintCheck(in CheckFile as FILE, record as array[1..MAXEMPS] of EmployeeRecord, i CheckNo as integer, CompanyName, CompanyAddress, CompanyCityStateZip, EmpAddress, EmpCityState, EmpZip as string)
 - 3.12.1 PrintCheckHeadings(Inout CheckFile as file, CompanyName, CompanyAddress, CompanyCityStateZip as string, CheckNo as integer)
 - 3.12.2 PrintCheckBody(inout CheckFile as file, record as EmployeeRecord[1..MAXEMPS], CheckNo, I as integer)

3.12.2.1.1 isVowel(in aChar as character, out boolean)

3.12.2.2 generateRefCode(in lastname as string, Inout chkno as integer, out tempStr as string)

3.12.3 PrintCheckStub(In EmpAddress, EmpCityState, EmpZip,Inout CheckFile as file, record as array of EmployeeRecord[1..MAXEMPS], CheckNo, i as integer)

- 3.13 getEmpResidence(out EmpAddress, EmpCityState,EmpZip as string)

Declare reportfile, CompanyDataFile, EmpDataFile, CheckFile as file. Declare totreg, totovt, totrate, totgross, totfed, totstate, totSSI, totdefr, totnet, REG_HOURS, OVTRATE as real.

Delcare numemps, i, CheckNo, MAXEMPS, SIZE, MAXDESCS as integer.

Declare CompanyName, CompanyAddress, CompanyCityStateZip, EmpAddress, EmpCityState, EmpZip as string.

Define EmployeeRecord as record

Declare lastname, firstname as string Declare hours, reghrs, ovthrs, payrate, defr, gross, fedtax, statetax, ssitax as real

End record

Declare record as array[1..SIZE] of EmployeeRecord

Declare temprecord as array[1..MAXEMPS] of EmployeeRecord

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scc-bdiv-cis.scc.losrios.edu - PuTTY
cisp360q stu018@scc-bdiv-cis:~/Assign-3/3c$ ls -l
total 116
-rw-r--r-- 1 cisp360q stu018 cisp360q
                                        881 May 6 17:05 calcTaxes.cpp
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                       2208 May 8 12:35 calcTax.o
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                         70 May 8 12:55 CompanyInfo.dat
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                         34 May 10 19:47 EmpData.txt
-rw-r--r-- 1 cisp360q_stu018 cisp360q 9800 May 12 15:41 EmployeeChecks.txt
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                       291 May 11 18:39 EMPLOYEES.h
-rw-r--r-- 1 cisp360q stu018 cisp360q 1062 May 9 23:37 GenRef.cpp
-rw-r--r-- 1 cisp360q stu018 cisp360q 17247 May 12 15:36 main.cpp
-rwxr-xr-x 1 cisp360q stu018 cisp360q 27553 May 12 15:39 main.exe
-rw-r--r-- 1 cisp360q stu018 cisp360q 264 May 6 17:06 makefile
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                      179 May 9 19:43 numStrings.dat
-rw-r--r 1 cisp360q_stu018 cisp360q 1941 May 12 15:35 readDescs.cpp
-rw-r--r-- 1 cisp360q_stu018 cisp360q 1427 May 12 15:41 report.txt
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                       992 May 6 17:05 SortbyLastName.cpp
-rw-r--r-- 1 cisp360q_stu018 cisp360q 2632 May 11 18:45 SortbyLastName.o
-rw-r--r-- 1 cisp360q_stu018 cisp360q
                                       78 May 6 17:06 TAXES.h
-rw-r--r-- 1 cisp360g stu018 cisp360g
                                         73 May 9 21:34 TempEmp.dat
cisp360q stu018@scc-bdiv-cis:~/Assign-3/3c$ cat makefile
calcTax.o:
             calcTaxes.cpp TAXES.h
       g++ -c calcTaxes.cpp -o calcTax.o
                      SortbyLastName.cpp EMPLOYEES.h
SortbyLastName.o:
       g++ -c SortbyLastName.cpp -o SortbyLastName.o
               main.cpp calcTax.o SortbyLastName.o
main.exe:
       g++ main.cpp calcTax.o SortbyLastName.o -o main.exe
cisp360q stu018@scc-bdiv-cis:~/Assign-3/3c$ make main.exe
make: `main.exe' is up to date.
cisp360q stu018@scc-bdiv-cis:~/Assign-3/3c$ ./main.exe
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                                      scc-bdiv-cis.scc.losrios.edu - PuTTY
    Please enter employee's last name: Doe
    Please enter employee's first name: John
    Please enter the employee's total hours worked for this pay period: 46.50
    Please enter employee's hourly rate of pay: 17
    Please enter employee's amount of deferred earnings: 50
    Please enter employee's last name: Whittle
    Please enter employee's first name: Ed
    Please enter the employee's total hours worked for this pay period: 25.50
    Please enter employee's hourly rate of pay: 11.50
    Please enter employee's amount of deferred earnings: 0
    Please enter employee's last name: Marion
    Please enter employee's first name: Louise
    Please enter the employee's total hours worked for this pay period: 40
    Please enter employee's hourly rate of pay: 13
    Please enter employee's amount of deferred earnings: 100
    Please enter employee's last name: Prentiss
    Please enter employee's first name: Paula
    Please enter the employee's total hours worked for this pay period: 50.50
    Please enter employee's hourly rate of pay: 15.75
    Please enter employee's amount of deferred earnings: 125
    Please enter employee's last name: Davidson
    Please enter employee's first name: Carl
    Please enter the employee's total hours worked for this pay period: 38
    Please enter employee's hourly rate of pay: 8.75
    Please enter employee's amount of deferred earnings: 15
cisp360q stu018@scc-bdiv-cis:~/Assign-3/3c$ cat report.txt
            Employee
                                         Reg Hrs
                                                                                 Net
            Name
                                 Rate
                                         Ovt Hrs
                                                    Pay
                                                               State
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|-----------|--------------------------|------------|------------------|-------------------|-----------------|---------------|-------------------|
| cisp360q_ | stu018@scc-bdiv-cis:~ | /Assign-3 | /3c\$ cat re | port.txt | | | ^ |
| | Employee | Pay | Reg Hrs | Gross | Fed | SSI | Net |
| | Name ====== | Rate | Ovt Hrs | Pay ===== | State ====== | Defr ===== | Pay ====== |
| | Davidson, Carl | 8.75 | 38.00 | 332.50 | 47.62 | | |
| | | | 0.00 | | 3.33 | 15.00 | |
| | Doe, John | 17.00 | 40.00 | 845.75 | 119.36 | 61.67 | 606.36 |
| | | | 6.50 | | 8.36 | 50.00 | |
| | Marion, Louise | 13.00 | 40.00 | 520.00 | 63.00 | 32.55 | 320.04 |
| | | | 0.00 | | 4.41 | 100.00 | |
| | Prentiss, Paula | 15.75 | 40.00 | 878.06 | 112.96 | 58.36 | 573.83 |
| | | | 10.50 | | 7.91 | 125.00 | |
| | Whittle, Ed | 11.50 | 25.50 | 293.25 | 43.99 | 22.73 | 223.46 |
| | | | 0.00 | | 3.08 | 0.00 | |
| | Totals | 66.00 | 183.50 | 2869.56 | 386.93 | 199.92 | 1965.63 |
| | | | 17.00 | | 27.09 | 290.00 | |
| | Averages | 13.20 | 36.70 | 573.91 | 77.39 | 39.98 | 393.13 |
| | | | 3.40 | | 5.42 | 58.00 | |
| cisp360q | stu018@scc-bdiv-cis:~ | /Assign-3 | /3c\$ cat *c | hecks.txt | | | |
| cat: *che | cks.txt: No such file | or direct | ory | | | | |
| cisp360q_ | stu018@scc-bdiv-cis:^ | /Assign-3 | /3c\$ ls | | | | |
| calcTaxes | .cpp EmpData.txt | Ger | nRef.cpp m | nakefile | repor | t.txt | TAXES.h |
| calcTax.o | <pre>EmployeeCheck</pre> | s.txt mai | in.cpp r | numStrings.d | dat Sortby | yLastName | e.cpp TempEmp.dat |
| CompanyIn | fo.dat EMPLOYEES.h | mai | in.exe r | eadDescs.cr | op Sortby | yLastName | 2.0 |
| cisp360q_ | stu018@scc-bdiv-cis:^ | /Assign-3 | /3c\$ cat *(| heck.txt | | | |
| cat: *Che | ck.txt: No such file | or directo | ory | | | | |
| | _stu018@scc-bdiv-cis:^ | | | | | | |
| ****** | ******** | ****** | ******** | ******* | ****** | | |
| * | | | Check No | 100 | * | | ~ |









