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Assignment 2

Linked List implementation:

In main.cpp, there are multiple calls to all of the functions for the Single_Linked_List class, and you are able to plug in whatever numbers into the parameters to test them.

- push_front(whatever number you want to add to the front)
- push_back(whatever number you want to add to the back)

The cout is already written to test the front and back functions

- insert(the index you want to insert at, the value to be inserted)
- remove(the index you want to remove)
- find(the value you want to find)

print() outputs the final linked list
empty() will completely empty the list

I would have provided screenshots for the outputs, but no matter what I did, I kept receiving undefined reference errors. I noticed no errors in my syntax or how any of it was set up, and the files were properly included and in the same directory. No matter what I tried, I was unable to get the compiler to recognize the functions.

Class implementation for Employee and derived classes:

I ran into the same issue for my classes. I kept receiving undefined reference for my classes as well. I am unable to provide screenshots as none of my code will not run no matter how much I check it. There are no syntax errors as there are no red underlines under anything, and everything is included in the files and I used pragma once. I am lost on how else to fix this error.

To run my classes code, all you have to do is change the values passed into the constructors.

Professional employee1(annual salary,vacation days,insurance amount);
 NonProfessional employee2(hourly pay, vacation days, insurance amount, hours worked in the week)

From there, the code will output most of the information from there. The only changes to be made are in two other lines IF the hourly rate/salary is changed

int week1 = employee1.weeklypay(annual salary);
int week = employee2.weeklypay(12);

And if the hours worked for the part time employee changes

employee2.vacationdays(hours worked in the week);
employee2.insuranceamt(hours worked in the week);

Here is the error I kept running into for both sections:

```
> sh -c make -s
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/main-7194c1.o: in function `main'
/home/runner/CS303-Assignment-2/./main.cpp:48: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /home/runner/CS303-Assignment-2/./main.
cpp:48: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /home/runner/CS303-Assignment-2/./main.
cpp:48: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /home/runner/CS303-Assignment-2/./main.
cpp:48: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/NonProfessional-ad09a5.o: in funct
ion `NonProfessional':
/home/runner/CS303-Assignment-2/./NonProfessional.cpp:23: undefined reference to `Employee::Employee(int,
 int, int)'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/NonProfessional-ad09a5.o: in funct
ion `~NonProfessional':
/home/runner/CS303-Assignment-2/./NonProfessional.h:4: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/NonProfessional-ad09a5.o:(.data.re
l.ro+0x28): undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/NonProfessional-ad09a5.o:(.data.re
l.ro+0x48): undefined reference to `typeinfo for Employee'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/Professional-cebceb.o: in function
 `Professional':
/home/runner/CS303-Assignment-2/./Professional.cpp:16: undefined reference to `Employee::Employee(int, in
t, int)'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/Professional-cebceb.o: in function
 `~Professional':
/home/runner/CS303-Assignment-2/./Professional.h:4: undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/Professional-cebceb.o:(.data.rel.r
o+0x28): undefined reference to `Employee::~Employee()'
/nix/store/039g378vc3pc3dvi9dzdlrd0i4q93qwf-binutils-2.39/bin/ld: /tmp/Professional-cebceb.o:(.data.rel.r
o+0x48): undefined reference to `typeinfo for Employee'
clang-12: error: linker command failed with exit code 1 (use -v to see invocation)
make: *** [Makefile:10: main] Error 1
exit status 2
>
```