

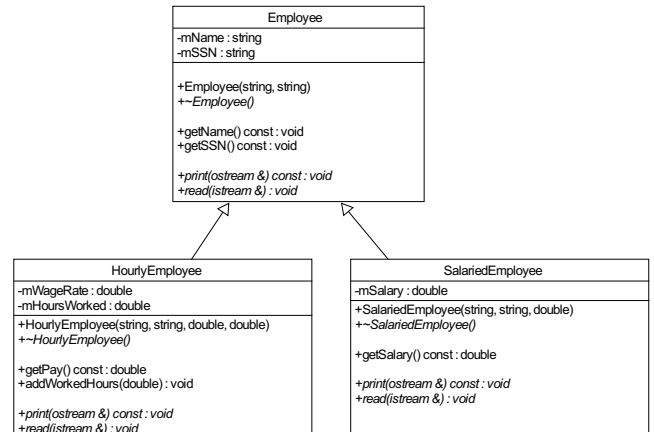
# CS 250 Quiz 3

Date: 4/17/2019

15 pts

Name: \_\_\_\_\_

1. (5 pts) Write the class definition (.h file) for SalariedEmployee as shown in the UML diagram.



```
class SalariedEmployee : public Employee {
public:
    SalariedEmployee(string name, string ssn, double sal);
    virtual ~SalariedEmployee();

    double getSalary() const;
    virtual void print(ostream &rcOut) const;
    virtual void read(istream &rcIn) ;

private:
    double mSalary;
};
```

2. (5 pts) Given the UML diagram above, is the following code legal? If not, which lines contain an error?

```
SalariedEmployee::SalariedEmployee(string name, string ssn, double salary) {
    mName = name;
    mSSN = ssn;
    mSalary = salary;
}
```

The code is not legal.

mName and mSSN are private in Employee so SalariedEmployee cannot access them directly.

3. (5 pts) Write a function, printAll, that returns void and will accept an array of pointers to Employees and a integer that denotes the size of the array. Walk through the array and print each employee to the screen, separated by a newline.

```
void printAll(Employee *apcEmps[], int size)
{
    for(int k = 0; k < size; ++k)
    {
        apcEmps[k]->print(cout);
        cout << endl;
    }
}
```