```
from hourly employee import HourlyEmployee
from salaried employee import SalariedEmployee
if __name__ == "__main__":
   fred = SalariedEmployee(14, 'Fred Flintstone', 454121883, 'weekly', 5200)
   barney = HourlyEmployee(23, 'Barney Rubble', 333333333, 'weekly', 1.25)
   boss = SalariedEmployee(99, 'Mr Slate', 999999999, 'monthly', 120000)
   weekly employees = [fred, barney]
   monthly employees = [boss]
   # Week of Jan 7th.
   barney.log hours(8)
   barney.log hours(7)
   barney.log hours(10)
   barney.log hours(8)
   barney.log hours(8)
   for e in weekly employees:
       e.record pay('Jan 7, 3000 BC')
   # Week of Jan 14th.
   barney.log hours(42)
   for e in weekly employees:
       e.record pay('Jan 14, 3000 BC')
   # Week of Jan 21st.
   barney.log hours(37)
   for e in weekly employees:
       e.record pay('Jan 21, 3000 BC')
   # Week of Jan 28th. End of month so pay the monthly employees too.
   barney.log hours(40)
   for e in weekly employees:
       e.record pay('Jan 28, 3000 BC')
   for e in monthly employees:
       e.record pay('Jan 28, 3000 BC')
   # Sum up the company payroll for January.
   grand total = 0
   for e in weekly_employees + monthly_employees:
       pay = e.total pay()
       print("{} made ${}".format(e.name, pay))
       grand_total += pay
   print("In total, employees made ${}".format(grand total))
```

```
class Employee():
   An employee.
        eid: int
                       - This employee's ID number
       name: str
                       - This employee's name
       SIN: int
                       - This employee's social insurance number
       pay period: str - This employee's pay period, either 'weekly' or
                          'monthly'
   This is an abstract class. Only child classes should be instantiated.
    def __init__(self, eid, name, SIN, pay_period):
        (Employee) -> NoneType
        self.eid = eid
       self.name = name
       self.SIN = SIN
       self.pay period = pay period
   def amount_of_pay(self):
        (Employee) -> float
       Return the amount that this Employee should be paid in the next
        pay period.
    def record pay(self, date):
        (Employee, str) -> NoneType
       Record the amount this Employee should be paid for the next pay
       period in their pay history, with the associated date.
   def total_pay(self):
        (Employee) -> float
       Return the total amount of pay this Employee has received.
if name == ' main ':
    import doctest
```

doctest.testmod()