JAVA網路應用Homework #2

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//Q1 Exercise 8.13

public class DateDisplay

{

public static void main( String[] args )

{

Date date1 = new Date(2, 29, 1992);

Date date2 = new Date(12, 32, 1992);

Date date3 = new Date("March", 12, 1992);

Date date4 = new Date(168, 1992);

Date date5 = new Date(367, 1992);

}

}

class Date

{

private int day;

private int month;

private String MONTH = new String();

private int year;

public int [] daysPerMonth = {0, 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

public String [] nameOfMonth = {"NULL", "January", "Febuary", "March", "April", "May", "June", "July", "Augest", "September", "October", "November", "December"};

public Date(int m, int d, int y) //case 1

{

month = m;

day = d;

year = y;

if( month>=1 && month<=12) //檢查輸入對錯

{

if( day>0 && day <= daysPerMonth[month])

System.out.printf("%s\n", toString1());

else if( month==2 && day==29 && ( year%400==0||(year%4==0&&year%100!=0)))

System.out.printf("%s\n", toString1());

else

System.out.println("Wrong!");

}

else

System.out.println("Wrong!");

}

public Date(String m, int d, int y) //case 2

{

MONTH = m;

day = d;

year = y;

int monthCount= 0;

for(int i=0; i<13; i++) //找到對應月名的陣列數

{

if(nameOfMonth[i] == MONTH)

monthCount = i;

}

if(monthCount>=1 && monthCount<=12) //檢查輸入對錯

{

if( day>0 && day <= daysPerMonth[monthCount])

System.out.printf("%s\n", toString2());

else if( monthCount==2 && day==29 && ( year%400==0||(year%4==0&&year%100!=0)))

System.out.printf("%s\n", toString2());

else

System.out.println("Wrong!");

}

else

System.out.println("Wrong!");

}

public Date(int d, int y) //case 3

{

day = d;

year = y;

if(day>0 && day <=365) //檢查輸入對錯

System.out.printf("%s\n", toString3());

else if(day==366 && (year%400==0||(year%4==0&&year%100!=0)))

System.out.printf("%s\n", toString3());

else

System.out.println("Wrong!");

}

public String toString1() //print case 1 format

{

return String.format("%d/%d/%d", month, day, year);

}

public String toString2() //print case 2 format

{

return String.format("%s %d,%d", MONTH, day, year);

}

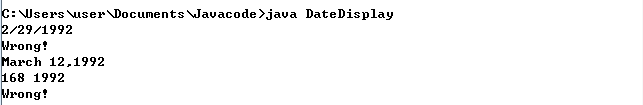
public String toString3() //print case 3 format

{

return String.format("%d %d", day, year);

}

}



//Q2 Exercise 9.3

public class BasePlusCommissionEmployee

{

private CommissionEmployee commissionEmployee;

private double baseSalary;

public BasePlusCommissionEmployee(String first, String last, String ssn, double sales, double rate , double salary)

{

commissionEmployee.setFirstName(first);

commissionEmployee.setLastName(last);

commissionEmployee.setSocialSecurityNumber(ssn);

commissionEmployee.setGrossSales(sales);

commissionEmployee.setCommissionRate(rate);

setBaseSalary(salary);

}

public void setBaseSalary(double salary)

{

baseSalary = (salary < 0.0) ? 0.0 : salary;

}

public double getBaseSalary()

{

return baseSalary;

}

public double earnings()

{

return getBaseSalary() + this.commissionEmployee.earnings();

}

public String toString()

{

return String.format("%s %s\n%s: %.2f", "base-salaried", this.commissionEmployee.toString(), "base salary", getBaseSalary());

}

}