

課題の Java プログラム

```
class Date {
    private int year;
    private int month;
    private int day;
    public int getYear() {
        return year;
    }
    public void setYear(int y) {
        year = y;
    }
    public int getMonth() {
        return month;
    }
    public void setMonth(int m) {
        month = m;
    }
    public int getDay() {
        return day;
    }
    public void setDay(int d) {
        day = d;
    }
    public void show() {
        System.out.printf("%d/%d/%d\n",
                           year, month, day);
    }
    public Date() {
        year = 1970;
        month = 1;
        day = 1;
    }
    public Date(int y) {
        year = y;
        month = 1;
        day = 1;
    }
}
```

```
class Time {
    private int hour;
    private int minute;
    public int getHour() {
        return hour;
    }
    public void setHour(int hour) {
        this.hour = hour;
    }
    public int getMinute() {
        return minute;
    }
}
```

```

    }
    public void setMinute(int minute) {
        this.minute = minute;
    }
    public void show() {
        System.out.printf("%d:%d\n", hour, minute);
    }
    public Time() {
        hour = 10;
        minute = 0;
    }
    public Time(int h) {
        hour = h;
        minute = 0;
    }
}
```

```
class Schedule {
    protected String name;
    protected Date date;
    public String getName() {
        return name;
    }
    public void setName(String n) {
        name = n;
    }
    public Date getDate() {
        return date;
    }
    public void setDate(Date d) {
        date = d;
    }
    public void show() {
        System.out.printf("name: %s\n", name);
        date.show();
    }
}
```

```
class ScheduleTime extends Schedule {
    private Time time;
    public Time getTime() {
        return time;
    }
    public void setTime(Time t) {
        time = t;
    }
    public void show() {
        super.show();
    }
}
```

```
        time.show();
    }
}

class ScheduleList {
    private ScheduleTime[] list;
    public ScheduleList() {
        list = new ScheduleTime[5];
    }
    public ScheduleTime getSchedule(int i) {
        return list[i];
    }
    public void setSchedule(int i,
                           ScheduleTime st) {
        list[i] = st;
    }
    public void show() {
        int i;
        for(i=0; i<list.length; i++) {
            if(list[i] != null) {
                System.out.printf("--%d--\n", i);
                list[i].show();
            }
        }
    }
}

}

class ScheduleMain {
    public static void main(String[] args) {
        Date d = new Date(2012);
        d.show();
        Time t = new Time(15);
        Schedule s = new Schedule();
        s.setName("!!!");
        s.setDate(d);
        s.show();
        ScheduleTime st = new ScheduleTime();
        st.setName("???");
        st.setDate(d);
        st.setTime(t);
        st.show();

        ScheduleList sl = new ScheduleList();
        sl.setSchedule(2, st);
        sl.show();
    }
}
```