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IF433-I OOP EXERCISE WEEK 6

```java
public class Date {
    private int year;
    private int month;
    private int day;

    public Date(int year, int month, int day) {
        this.year = year;
        this.month = month;
        this.day = day;
    }

    public int getYear() {
        return year;
    }

    public int getMonth() {
        return month;
    }

    public int getDay() {
        return day;
    }

    public void setYear(int year) {
        this.year = year;
    }

    public void setMonth(int month) {
        this.month = month;
    }

    public void setDay(int day) {
        this.day = day;
    }

    public void addYears(int yearsToAdd) {
        this.year += yearsToAdd;
    }

    public void addMonths(int monthsToAdd) {
```

```java
        this.month += monthsToAdd;
    }

    public void addDays(int daysToAdd) {
        this.day += daysToAdd;
    }

    public String toString() {
        return String.format("%02d/%02d/%04d", day, month, year);
    }

    public void setDate(int year, int month, int day) {
        this.year = year;
        this.month = month;
        this.day = day;
    }

    public void addDate(int daysToAdd, int monthsToAdd, int yearsToAdd) {
        this.year += yearsToAdd;
        this.month += monthsToAdd;
        this.day += daysToAdd;
    }
}
```

```java
public class Time {
    private int hour;
    private int minute;
    private int second;

    public Time(int hour, int minute, int second) {
        this.hour = hour;
        this.minute = minute;
        this.second = second;
    }

    public int getHour() {
        return hour;
    }

    public int getMinute() {
        return minute;
    }
```

```java
    public int getSecond() {
        return second;
    }

    public void setHour(int hour) {
        this.hour = hour;
    }

    public void setMinute(int minute) {
        this.minute = minute;
    }

    public void setSecond(int second) {
        this.second = second;
    }

    public void addHours(int hoursToAdd) {
        this.hour += hoursToAdd;
    }

    public void addMinute(int minutesToAdd) {
        this.minute += minutesToAdd;
    }

    public void addSeconds(int secondsToAdd) {
        this.second += secondsToAdd;
    }

    public String toString() {
        return String.format("%02d:%02d:%02d", hour, minute, second);
    }

    public void setTime(int hour, int minute, int second) {
        this.hour = hour;
        this.minute = minute;
        this.second = second;
    }

    public void addTime(int hoursToAdd, int minutesToAdd, int secondsToAdd) {
        this.hour += hoursToAdd;
        this.minute += minutesToAdd;
        this.second += secondsToAdd;
    }
}
```

```java
public class DateTime {
    private Date date;
    private Time time;

    public DateTime(int year, int month, int day, int hour, int minute, int
second) {
        this.date = new Date(year, month, day);
        this.time = new Time(hour, minute, second);
    }

    public DateTime(Date date, Time time) {
        this.date = date;
        this.time = time;
    }

    public void setDate(int year, int month, int day) {
        this.date.setYear(year);
        this.date.setMonth(month);
        this.date.setDay(day);
    }

    public void setTime(int hour, int minute, int second) {
        this.time.setHour(hour);
        this.time.setMinute(minute);
        this.time.setSecond(second);
    }

    public String toString() {
        return String.format("%s %s", date.toString(), time.toString());
    }
}
```