

CS003B

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Design Document P9.04 Appointment

Step 1: Find out which methods you are asked to supply.
Create an appointment booking with a super class

Step 2: Specify the public interface.

Public class Month extends Appointment

Public class Day extends Appointment

Public class SetTime extends Appointment

Public class Appointment

Step 3: Document the public interface.

```
public Appointment (int day,int month, int year, String description)
{
}
```

```
//returns the year
public int getYear()
{
```

```
//returns the month
public int getMonth()
{
```

```
//returns the day
public int getDay()
{
```

```
//checks to see if all the dates match like an alarm to the date thats set
public boolean occurs(int day, int month, int year)
{
```

```
// this shows whats going on for that date
public String toString()
{
```

```
// this only sets the time once in the appointment book so its not repeating
public SetTime (int day,int month, int year, String description)
{
```

```
// checks to see if it occurs on the day specifically
public boolean occurs(int day,int month, int year)
{
```

Step 4: Determine instance variables.

```
Public class appointment
{
    private String description;
    private int year;
    private int month;
    private int day;
}
```

```
Public class ApptTest
{
    Appointment[] appt = new Appointment[3];
}
```

Step 5: Implement constructors and methods.

```
public boolean occurs(int day,int month, int year)
{
    //checks to see if its same year or greater then current year
    if (year > getYear())
    {
        return true;
    }

    // after it checks for that it sees if the month & day are bigger
    if (year == getYear())
    {
        if (month > getMonth())
        {
            return true;
        }

        if (day >= getDay())
        {
            return true;
        }
    }

    return false;
}

public boolean occurs(int day, int month, int year)
{
    return ((year == this.day) && (month == this.month) && (day == this.year));
}
```

Step 6: Test your class.

Please enter a date
Follow this order: Day,Month,Year:
Day:
27
Month:

7

Year:

2020

The Appointment Book will now look

Searching...

Searching...

Searching...

Final Java Presentations

BUILD SUCCESS

Total time: 13.055 s

Finished at: 2020-07-14T14:27:41-07:00
