Lab 7 Design Document

Class Methods

Appointment

- occursOn: Abstract method for subclasses to override
- getReason: Returns the reason for an appointment (i.e., "see dentist")

Onetime (extends Appointment)

- occursOn: Check the year, month, and day against

Daily (extends Appointment)

- occursOn: Just return true because it takes place every day.

Monthly (extends Appointment)

- occursOn: Check whether or not the day matches.

Public Interface

Appointment

public Appointment(String reason);
public abstract boolean occursOn(int year, int month, int day);
public String getReason();

Onetime

public Onetime(String reason, int year, int month, int day);
public boolean occursOn(int year, int month, int day);

Daily

public Daily(String reason);
public boolean occursOn(int year, int month, int day);

Monthly

public Monthly(String reason, int day);
public boolean occursOn(int year, int month, int day);

Instance Variables

Appointment

private String reason;

Onetime

private int year;
private int month;
private int day;

Daily

// none

Monthly

private int day;