Appointment class is the super class of all other classes. Onetime, Daily and Monthly are child classes of Appointment. They all have a date and a description of an appointment. Each of them is responsible to check the date according to their individual rules.

Appointment classes has a description and a date of the appointment.

Instance variables:

Private Date date;

Private String description;

Public Appointment(int year, int month, int day, String description)

Constructor of an appointment. Requires date and description.

Public String getDescription()

Gets the description of the appointment.

Public String getDate()

Gets the date of the appointment.

Public Boolean occursOn(int year, int month, int day)

Check if the appointment occurs on a date.

Onetime, Daily and Monthly are all child classes of Appointment. They only override occursOn() method individually. Need constructors that calls the constructor of super class.

Public *ClassName*()

Constructor of child classes. Simply calls constructor of super class.

Public Boolean occursOn(int year, int month, int day)

Check if the appointment occurs on a date.

Onetime: true if the date is exactly the same as the appointment.

Daily: returns true if the date is after or the same as the first appointment.

Monthly: the day of the date must match the appointment and is after or the same as the first appointment.