2006 AP° COMPUTER SCIENCE A FREE-RESPONSE QUESTIONS

(b) A DailySchedule object contains a list of nonoverlapping Appointment objects. The DailySchedule class contains methods to clear all appointments that conflict with a given appointment and to add an appointment to the schedule.

```
public class DailySchedule
   // contains Appointment objects, no two Appointments overlap
  private ArrayList apptList;
  public DailySchedule()
  ( apptList = new ArrayList(); )
  // removes all appointments that overlap the given Appointment
 // postcondition: all appointments that have a time conflict with
                   appt have been removed from this DailySchedule
 public void clearConflicts(Appointment appt)
 ( /* to be implemented in part (b) */
 // if emergency is true, clears any overlapping appointments and adds
 // appt to this DailySchedule; otherwise, if there are no conflicting
 // appointments, adds appt to this DailySchedule;
// returns true if the appointment was added;
// otherwise, returns false
public boolean addAppt(Appointment appt, boolean emergency)
{ /* to be implemented in part (c) */ }
// There may be fields, constructors, and methods that are not shown.
```

Write the DailySchedule method clearConflicts. Method clearConflicts removes all appointments that conflict with the given appointment.

In writing method clearConflicts, you may assume that conflictsWith works as specified, regardless of what you wrote in part (a).

Complete method clearConflicts below.

```
// removes all appointments that overlap the given Appointment
// postcondition: all appointments that have a time conflict with
// appt have been removed from this DailySchedule
public void clearConflicts(Appointment appt)
```

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