```
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package caltool.schedule;

import caltool.caldb.*;

/****
 *
 * An Event is the simplest type of ScheduledItem.  The only component it adds
 * to a ScheduledItem is simple security.
 *
 * @author Gene Fisher (gfisher@calpoly.edu)
 * @version 6feb04
 *
 */

public class Event extends ScheduledItem {

    /**
     * Construct an empty event.
     */
    public Event() {
    }

    /**
     * Construct an event with the given field values.  Generate and store the
     * unique key for this event.
     */
    public Event(String title, Date startOrDueDate, Date endDate,
            Category category, SimpleSecurity security) {

        this.title = title;
        this.startOrDueDate = startOrDueDate;
        this.endDate = endDate;
        this.category = category;
        this.security = security;

        itemKey = new ItemKey(startOrDueDate, null, null, title, 0);
    }


    /*-*
     * Access methods.
     */

    /**
     * Return the title.
     */
    public String getTitle() {
        return title;
    }

    /**
     * Return the start date.
     */
    public Date getStartDate() {
        return startOrDueDate;
    }

    /**
     * Return the end date.
     */
    public Date getEndDate() {
        return endDate;
    }

    /*-*
     * Process methods
     */

    /**
     * Return the unique key for this, consisting of date and title.  Time,
     * duration, and priority are unused.
     */
    public ItemKey getKey() {
        return itemKey;
    }

    /**
     * Convert this to a string.
     */
    public String toString() {
        return
            "\n" + "Title: " + title + "\n" +
            "Start date: " + startOrDueDate.toString() + "\n" +
            "End date: " + (endDate == null ? "" : endDate.toString()) + "\n" +
            "Category: " + (category == null ? "" : category.toString()) +
                "\n" +
            "Security: " + security + "\n";
    }

    /*-*
     * Derived data field
     */

    /** Whether the event is public or private. */
    protected SimpleSecurity security;


    /*-*
     * Process data field
     */

    /** The uniqe key for storing this in the UserCalendar items list */
    protected ItemKey itemKey;

}
```