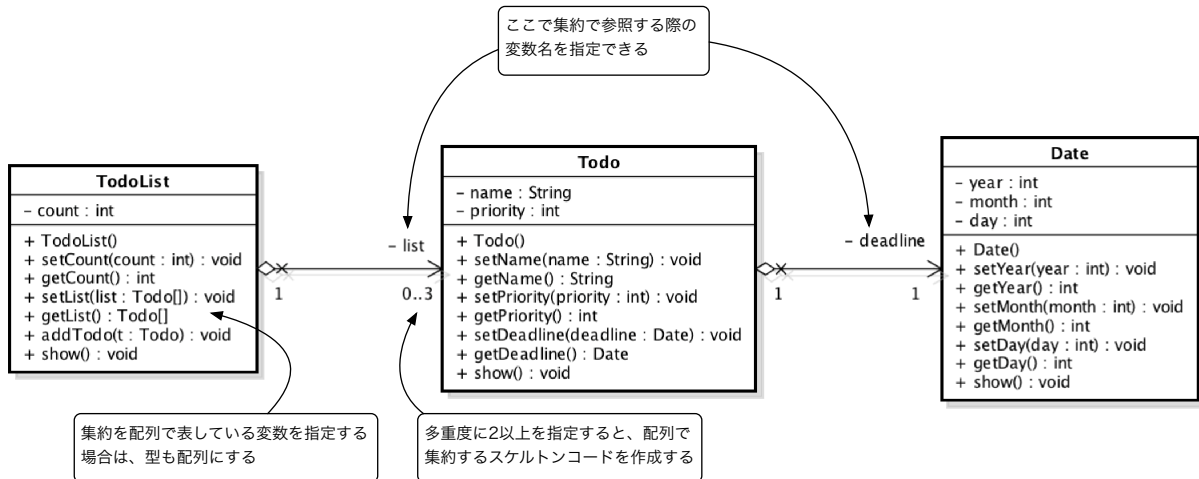


## クラス図の例



## Java プログラムの例（ファイルに毎にファイルを分けて保存する）

```

public class Date {
    private int year;
    private int month;
    private int day;
    public Date() {
        year = 1970;
        month = 1;
        day = 1;
    }
    public void setYear(int year) {
        this.year = year;
    }
    public int getYear() {
        return year;
    }
    public void setMonth(int month) {
        this.month = month;
    }
    public int getMonth() {
        return month;
    }
    public void setDay(int day) {
        this.day = day;
    }
    public int getDay() {
        return day;
    }
    public void show() {
        System.out.printf("%s-%s-%s\n",
            year, month, day);
    }
}

public class Todo {
    private String name;
    private int priority;
    private Date deadline;
    public Todo() {
        name = "undefined";
        priority = 0;
        deadline = new Date();
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getName() {
        return name;
    }
    public void setPriority(int priority) {
        this.priority = priority;
    }
    public int getPriority() {
        return priority;
    }
    public void setDeadline(Date deadline) {
        this.deadline = deadline;
    }
}
  
```

```

    }
    public Date getDeadline() {
        return deadline;
    }
    public void show() {
        System.out.printf("(%d) %s ",
                           priority, name);
        deadline.show();
    }
}

```

```

public class TodoList {
    private int count;
    private Todo[] list;
    public TodoList() {
        list = new Todo[3];
        count = 0;
    }
    public void setCount(int count) {
        this.count = count;
    }
    public int getCount() {
        return count;
    }
    public void setList(Todo[] list) {
        this.list = list;
    }
    public Todo[] getList() {
        return list;
    }
    public void addTodo(Todo t) {
        if(count >= list.length) {
            count = 0;
        }
    }
}

```

```

        list[count] = t;
        count++;
    }
    public void show() {
        for(int i=0; i<list.length; i++) {
            if(list[i]!=null) {
                list[i].show();
            }
        }
    }
}

```

```

public class TodoMain1 {
    public static void main(String[] args) {
        //クラス Date の動作確認
        Date d1 = new Date();
        d1.setYear(2019);
        d1.setMonth(10);
        d1.setDay(31);
        d1.show();
        //クラス Todo の動作確認
        Todo t1 = new Todo();
        t1.setName("Prepare Halloween");
        t1.setPriority(1);
        t1.setDeadline(d1);
        t1.show();
        //クラス TodoList の動作確認
        TodoList l1 = new TodoList();
        l1.addTodo(t1);
        Todo t2 = new Todo();
        l1.addTodo(t2);
        l1.show();
    }
}

```