



```
public abstract class Dissertation {
    private boolean finished;
    private int numberOfChapters;

    public Dissertation(final int numberOfChapters) {
        this.numberOfChapters = numberOfChapters;
    }

    public void write() {
        structureIdeas();
        produceText();
        improve();
        finished = true;
    }

    public boolean isFinished() {
        return finished;
    }

    protected abstract void structureIdeas();
    protected abstract void produceText();
    protected abstract void improveChapter(int chapterNumber);

    protected void improve() {
        while (isTimeLeft()) {
            improveChapter(new Random().nextInt(numberOfChapters));
        }
    }

    private boolean isTimeLeft() {
        return UserInterface.showDialogYesNo("Time left?");
    }
}
```

