```java
public interface SentenceBuilder{
    void buildSubject();
    void buildVerb();
    void buildObject();
    void extendSentence();
    void whenSentence();
}
```

Figure 1: Source code for ../src/SentenceBuilder.java

```java
public class PastSentenceBuilder implements SentenceBuilder{
    private String subject, verb, object,sentence;

    public PastSentenceBuilder(String subject, String verb, String object) {
        super();
        this.subject = subject;
        this.verb = verb;
        this.object = object;
        reset();
    }

    @Override
    public void buildSubject() {
        sentence += "the " + subject + " ";
    }

    @Override
    public void buildVerb() {
        sentence += verb + "ed ";
    }

    @Override
    public void buildObject() {
        sentence += object;
    }

    @Override
    public void extendSentence() {
        sentence += "Yesterday, ";
    }
    @Override
    public void whenSentence() {
        sentence += "When did ";
    }
    public String getResult() {
        return sentence;
    }
    public void reset() {
        sentence = "";
    }
}
```

Figure 2: Source code for ../src/PastSentenceBuilder.java

```java
public class PresentSentenceBuilder implements SentenceBuilder{
    private String subject, verb, object, sentence;

    public PresentSentenceBuilder(String subject, String verb, String object) {
        super();
        this.subject = subject;
        this.verb = verb;
        this.object = object;
        reset();
    }

    @Override
    public void buildSubject() {
        sentence += "the " + subject + " ";
    }
    @Override
    public void buildVerb() {
        sentence += verb + "s ";
    }
    @Override
    public void buildObject() {
        sentence += object+ " ";
    }
    @Override
    public void extendSentence() {
        sentence += "Everyday, ";
    }
    @Override
    public void whenSentence() {
        sentence += "When does ";
    }
    public String getResult() {
        return sentence;
    }
    public void reset() {
        sentence = "";
    }
}
```

Figure 3: Source code for ../src/PresentSentenceBuilder.java

```java
public class SimpleSentaceDirector {
    private SentenceBuilder builder;

    public SimpleSentaceDirector(SentenceBuilder builder) {
        this.builder =  builder;
    }
    public void Counsruct() {
         builder.extendSentence();
         builder.buildSubject() ;
         builder.buildVerb() ;
         builder.buildObject();
    }

}
```

Figure 4: Source code for ../src/SimpleSentaceDirector.java

```java
public class WhenSentaceDirector {
    private SentenceBuilder builder;

    public WhenSentaceDirector(SentenceBuilder builder) {
        this.builder =  builder;
    }
    public void Counsruct() {
        builder.whenSentence();
        builder.buildSubject();
        builder.buildVerb();
        builder.buildObject();
    }

}
```

Figure 5: Source code for ../src/WhenSentaceDirector.java

```
1   import java.util.Random;
2
3   public class Main {
4       public static void main(String[] args) {
5           Random rand = new Random();
6           String[] subjects =
7               {"cow", "chicken", "boy", "girl", "baker", "man"};
8           String[] verbs =
9               {"walk", "attck", "play", "answer", "cook", "park"};
10          String[] objects =
11              {"on the grass", "the puppy", "with the ball", "the question", "the meat", "the car"};
12
13
14          PresentSentenceBuilder curPresentBuilder = new PresentSentenceBuilder(
15      subjects[rand.nextInt(subjects.length)],
16      verbs[rand.nextInt(verbs.length)],
17      objects[rand.nextInt(objects.length)]
18                              );
19          PastSentenceBuilder curPastBuilder = new PastSentenceBuilder(
20      subjects[rand.nextInt(subjects.length)],
21      verbs[rand.nextInt(verbs.length)],
22      objects[rand.nextInt(objects.length)]
23                          );
24
25
26          (new SimpleSentaceDirector(curPresentBuilder)).Counsruct();
27          System.out.println(curPresentBuilder.getResult());
28          (new SimpleSentaceDirector(curPastBuilder)).Counsruct();
29          System.out.println(curPastBuilder.getResult());
30
31          curPresentBuilder.reset();
32          curPastBuilder.reset();
33          (new WhenSentaceDirector(curPresentBuilder)).Counsruct();
34          System.out.println(curPresentBuilder.getResult());
35          (new WhenSentaceDirector(curPastBuilder)).Counsruct();
36          System.out.println(curPastBuilder.getResult());
37
38
39      }
40  }
```

Figure 6: Source code for ../src/Main.java