

The constructor

a0

number

0

Chapter

title

null

prev

null

getNumber() getTitle() getPrev()

setNumber(int) setTitle(String)

setPrev(Chapter)

Chapter(int, String)

Purpose of a constructor: initialize some or all of the fields of a newly created instance during evaluation of a new-expression.

~~int void~~

A parameter for each field for which a value is to be given in the new-expression

```
/** Constructor: an instance with number n, title t, and previous chapter null. */
```

```
public Chapter (int n, String t) {  
    number= n;  
    title= t;  
}
```

The new expression

a0

number

1

Chapter

title

"Intro"

prev

null

Chapter(int, String)

default values

integral type: 0

float/double: 0.0

boolean: false

class-type: null

```
/** Constructor: an instance with number n,  
    title t, and previous chapter null. */
```

```
public Chapter (int n, String t) {  
    number= n;  title= t;  
}
```

new Chapter(1, "Intro")

a0

Step 1. Create (or draw) a new object of class Chapter, with default values for the fields.

Step 2. Execute the constructor call.

Step 3. Yield as value of the new-expression the name of the new object.