

## Exception Handling

```

+-----+
| Book                                     |
|                                         |
|   int np; // Number of pages           |
|   int w, h; // Width and height        |
|                                         |
|   +-----+                             |
|   | Cover frontCover                     |
|   |                                         |
|   |   int nl; // Number of lines         |
|   |                                         |
|   +-----+                             |
|                                         |
|   +-----+                             |
|   | Cover backCover                      |
|   |                                         |
|   |   int nl; // Number of lines         |
|   |                                         |
|   +-----+                             |
+-----+

```

Several exceptions will be caught.

- Error code 1: Number of lines for front cover is more than 10
  - Error code 2: Number of lines for back cover is more than 20
  - Error code 3: Number of pages of the book is less or equal to 0
  - Error code 4: The book's width is equal to its height
- Thus we don't accept a book whose shape is square

```

-----+
| Error  |
|  int code |
+-----+
      |
      | public
      |
+-----+-----+-----+-----+
| public          | public          | public          | public          |
|-----|-----|-----|-----|
| InvalidFrontCover | InvalidBackCover | EmptyBook | SquareBook |
|   int l           |   int l           |   int np   |   int side  |
|-----|-----|-----|-----|
code:1          code: 2          code: 3          code: 4

```