Assignment 1

• create a downloader of images from web
  - a program that
    • obtains a URL as a command line parameter
    • downloads the URL (suppose that it is a html page)
    • downloads all the referenced images from the page
      - use regular expressions for finding images
        • <img src="...." />

• e.g., test the program on the web of the course
Assignment 2

• Create a program that prints a simple “formatted calendar for a given month
  – no arguments – for the current month
    December 2011
    Su   Mo   Tu   We   Th   Fr   Sa
       1   2   3
     4   5   6   7   8   9  10
    11  12  13  14  15  16  17
    18  19  20  21  22  23  24
    25  26  27  28  29  30  31
  – with arguments – month year (e.g. 1 2017)
    January 2017
    Su   Mo   Tu   We   Th   Fr   Sa
       1  2  3  4  5  6  7
     8  9 10 11 12 13 14
    15 16 17 18 19 20 21
    22 23 24 25 26 27 28
    29 30 31
Assignment 3

• implement parallel downloading to the downloader (Assignment 1)
  - use multiple threads for downloading
  - limit a number of used threads
    • e.g., by number of available processors
Tests...
Test 1

- Is it possible (without usage of the reflection API) to create another instance of the class (i.e. a different instance than in the field INSTANCE)?

```java
public class Dog implements Serializable {

    public static final Dog INSTANCE = new Dog();

    private Dog() { }

    public String toString() {
        return "Woof";
    }
}
```