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 2016
    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...
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";
    }
}
```