Test Task

The task is to develop a console tool which finds similar images in a given folder and prints similar pairs. We provide you with an <u>example dataset for development</u>. There are three types of similarity:

- duplicate (images which are exactly the same)
- modification (images which differ by size, blur level or noise filters)
- similar (images of the same scene from another angle)

The images are marked in the dataset with words in the file names that correspond to the type of similarity. The minimal acceptable solution should be able to find "duplicates". The complete solution should handle all three types of similarity.

Also, you are only allowed to use plain python with the standard library and the following libraries: https://pillow.readthedocs.io/en/stable/ and https://pillow.readthedocs.io/en/stable/ and https://www.numpy.org/. You shouldn't use filenames to identify duplicates and be aware that another dataset will be used for assessing solution performance.

Please send the link to git or gist with your solution here:

https://docs.google.com/forms/u/1/d/1Vcy Y3x7mQmubatRNjse16tm32rVrcPlZ31vx30ID10.

Deadline is May 31st 23:59 GMT+3.

If you have any questions regarding the test task, you can reach us at dima.lylyk@railsreactor.com

Example of solution interface with the example dataset:

11_modification.jpg 11.jpg 11_modification.jpg 11_duplicate.jpg 6_similar.jpg 6.jpg 11.jpg 11_duplicate.jpg 15_modification.jpg 15.jpg 1.jpg 1_duplicate.jpg

Good luck!