

COMPTE RENDU

TIVO

Valerian DAMM

Exercice 1 : Transformation d'histogrammes – images en niveaux de gris

Question 1

Nom du plugin : AffContraste

Résultat sur baboon

Moyenne : 127.31318664550781

Écart type : 1.069190450274284

Résultat sur baboon

Moyenne : 63.247007288244404

Écart type : 49.66383261690122

Résultat sur baboon

Moyenne : 38.770223826714805

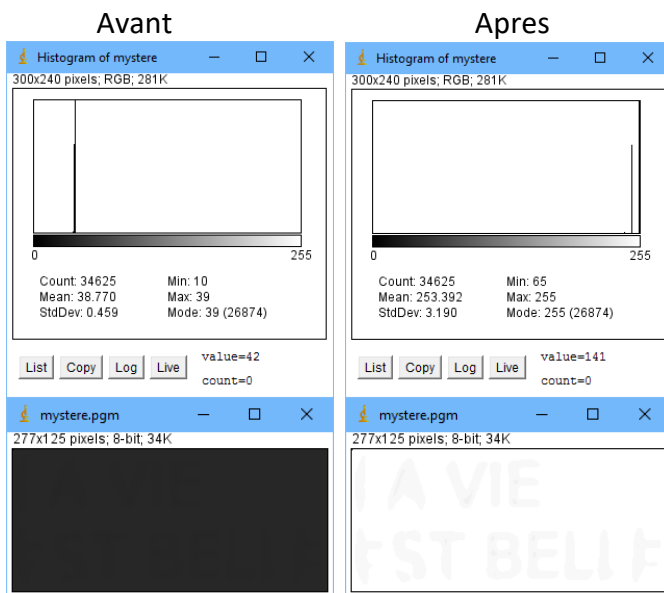
Écart type : 0.4601889735574586

Les résultats sont bien identiques a ceux de ImageJ (aux erreurs d'arrondi près)

Question 2

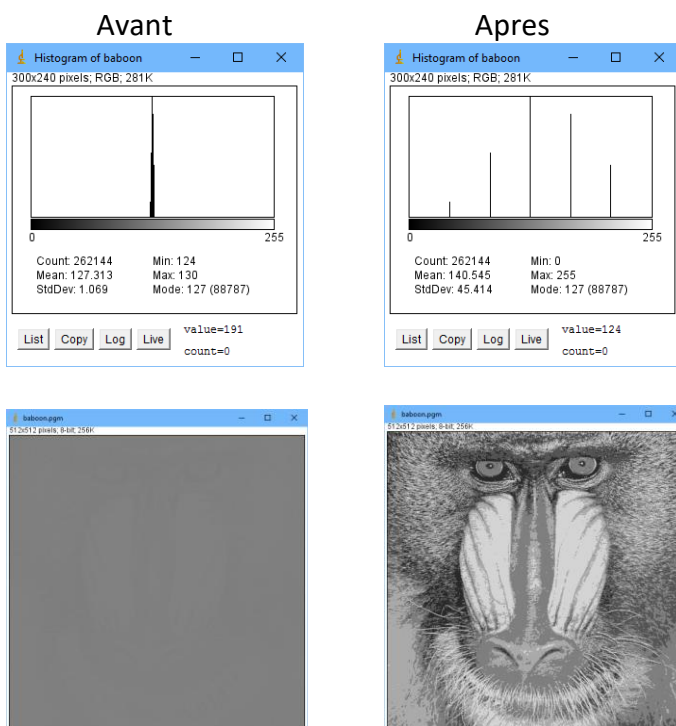
Nom du plugin : etirage

Résultat d'étirage sur mystere :



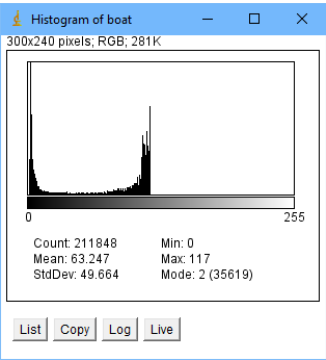
Le plugin a tenté d'étirer les niveaux de gris mais du au très faible nombre de couleur a la base le résultat n'est pas probant.

Résultat sur Baboon :

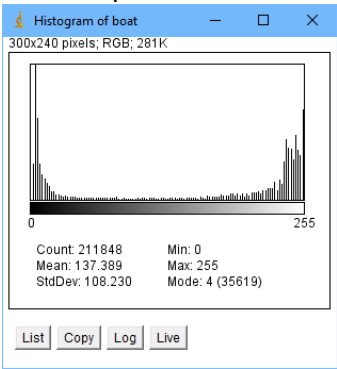


Résultat sur boat :

Avant



Après

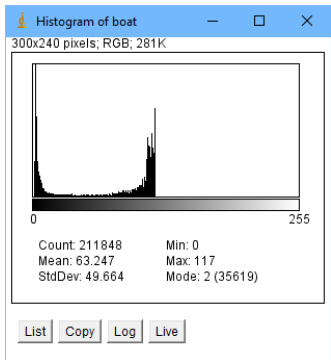
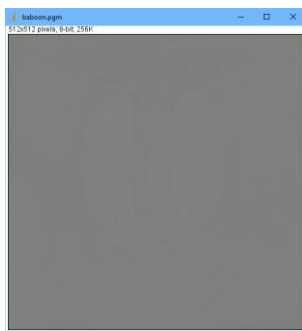
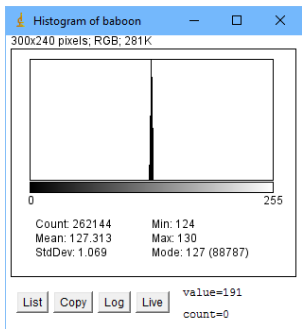


Question 3

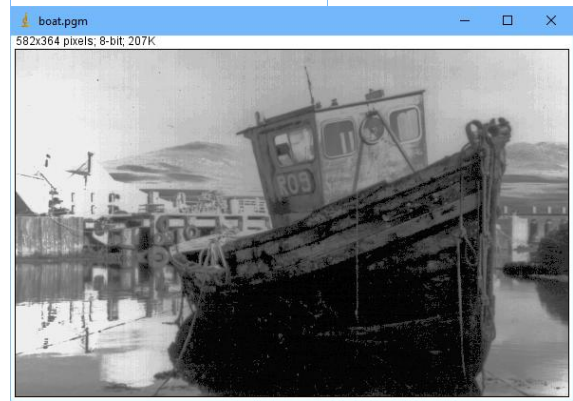
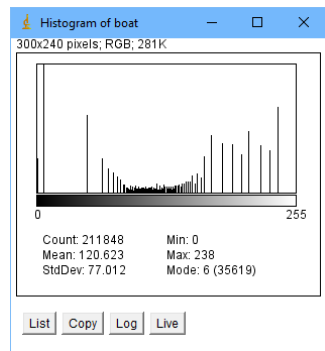
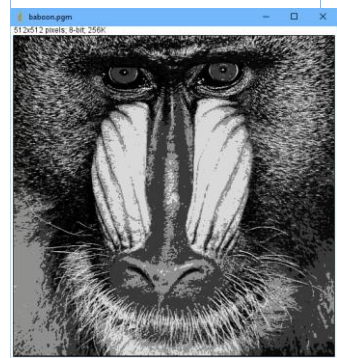
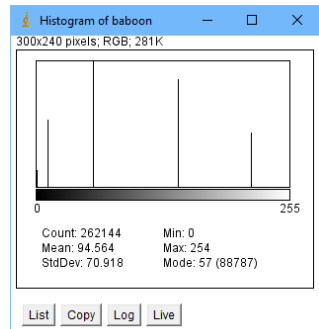
Nom du plugin : Egalization

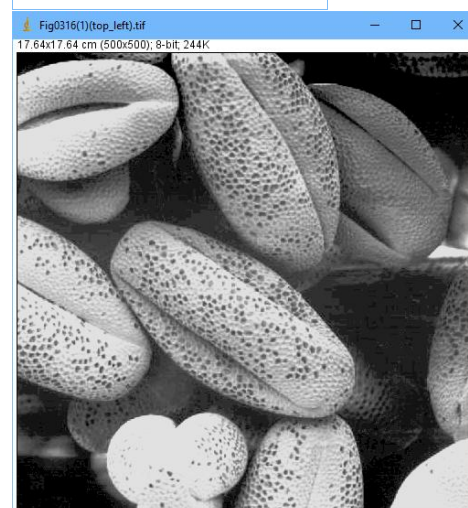
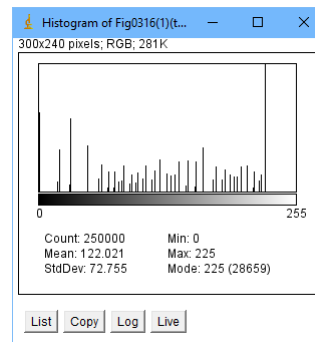
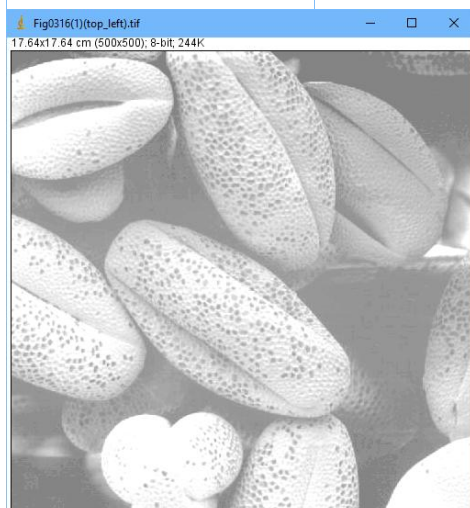
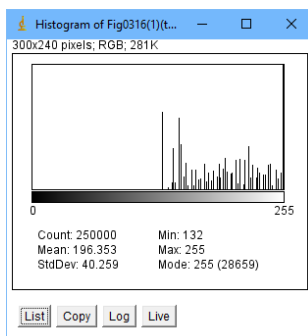
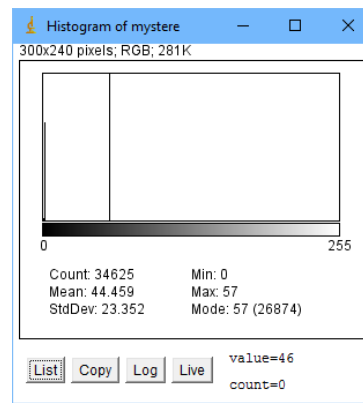
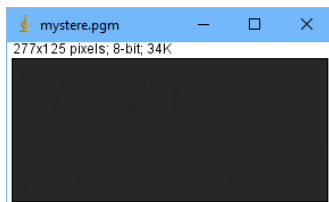
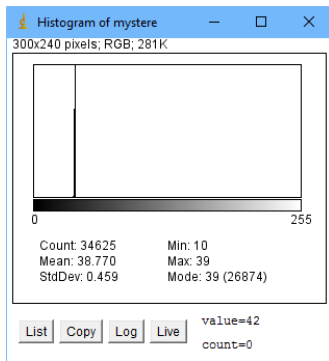
Résultat d'Egalization

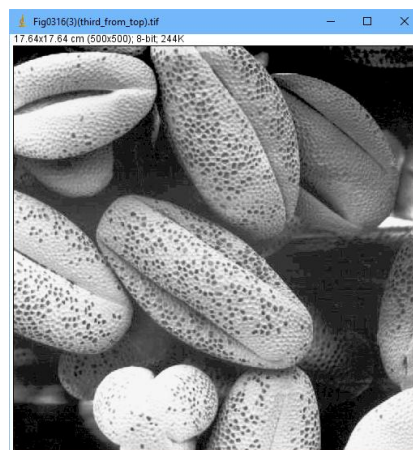
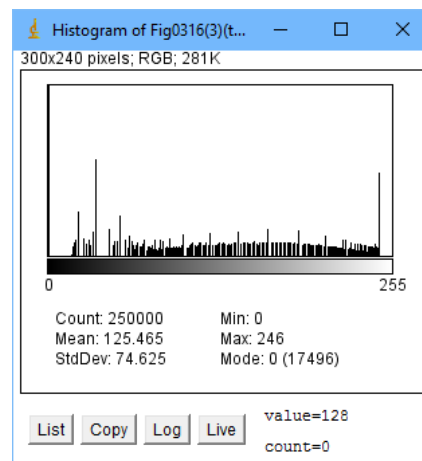
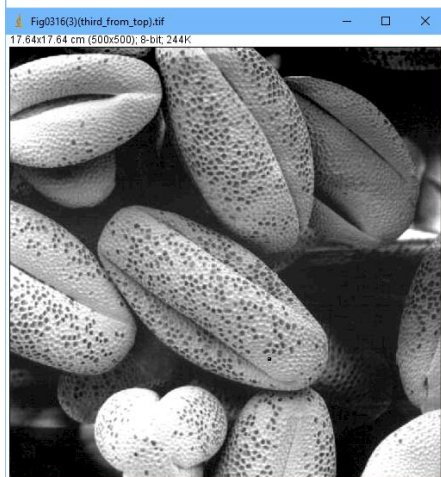
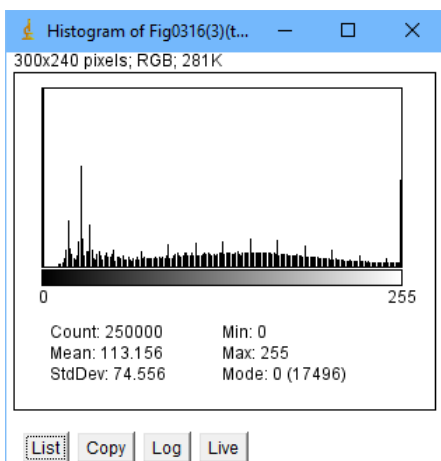
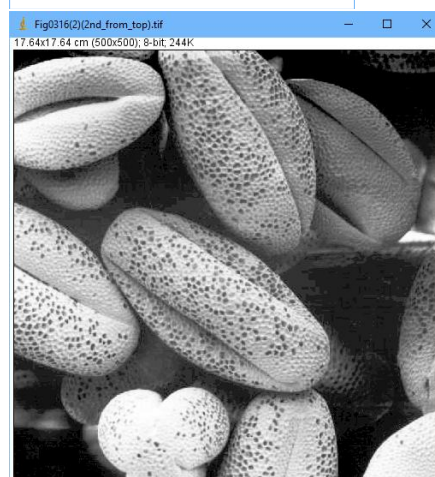
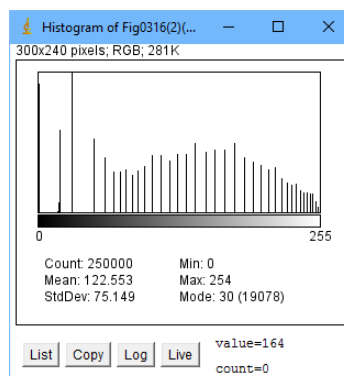
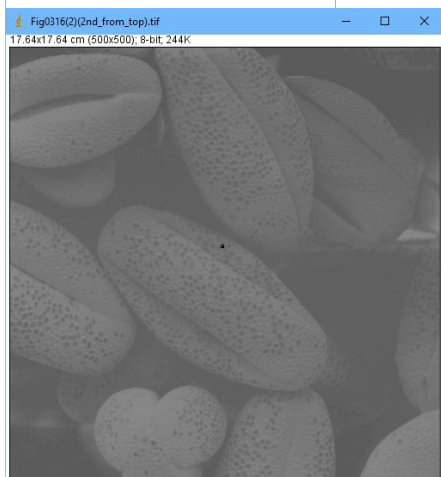
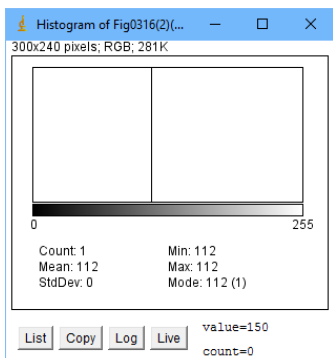
Avant :

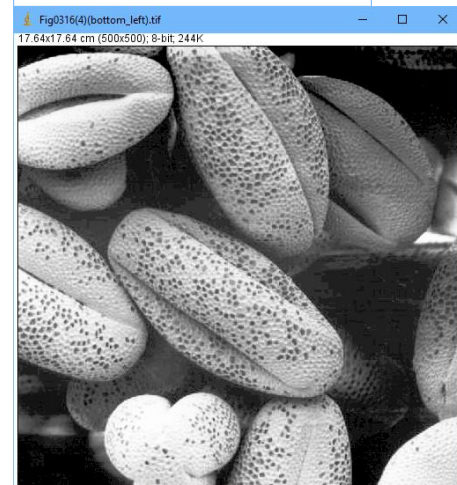
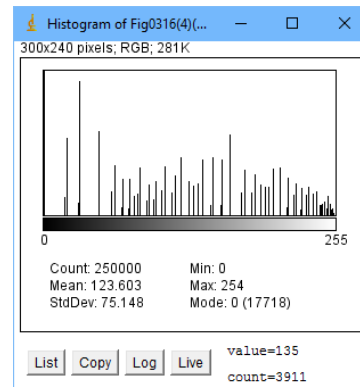
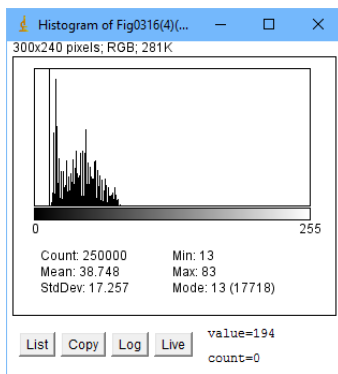


Après :









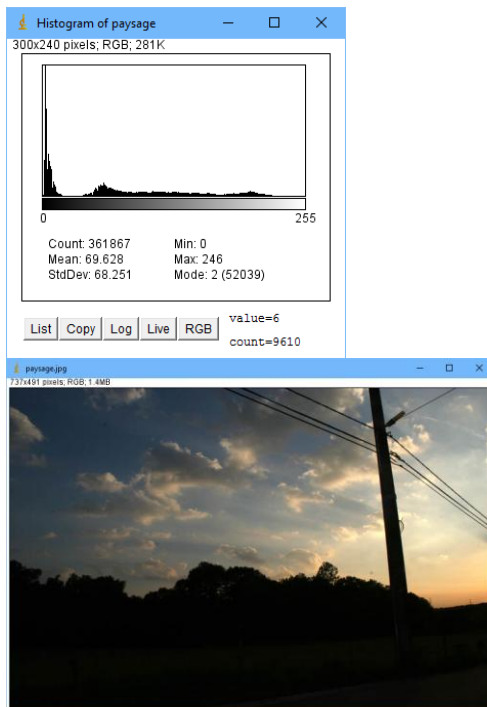
Les histogrammes ont été étiré/égalisé engendrant une amélioration des images les rendant ainsi plus lisible pour l'utilisateur.

Exercice 2 : Transformation d'histogrammes – images couleurs

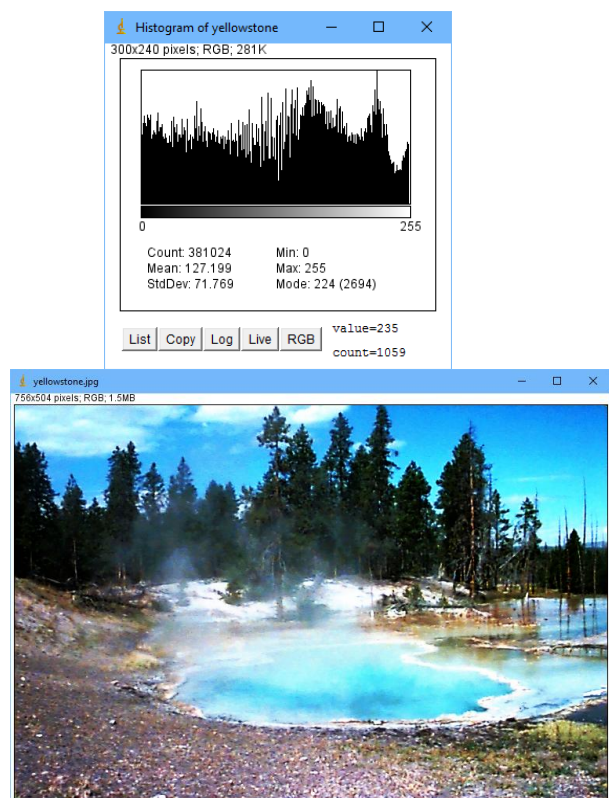
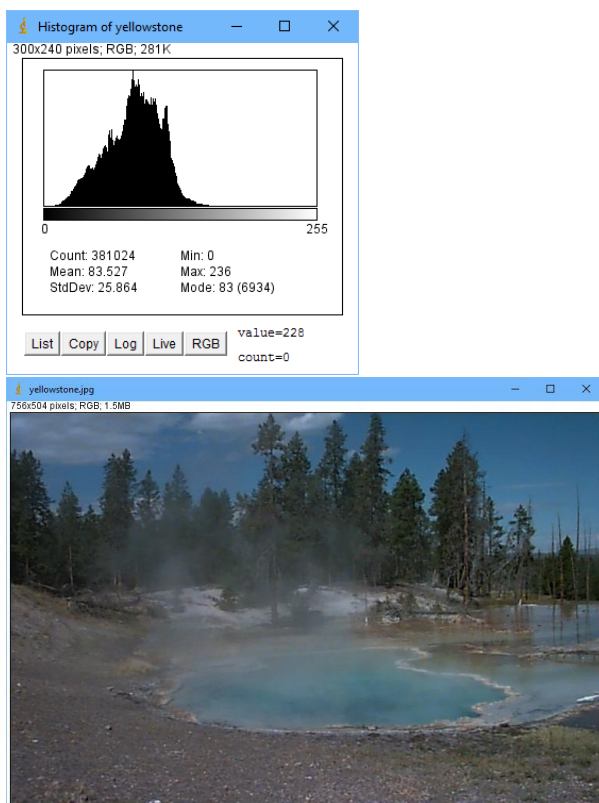
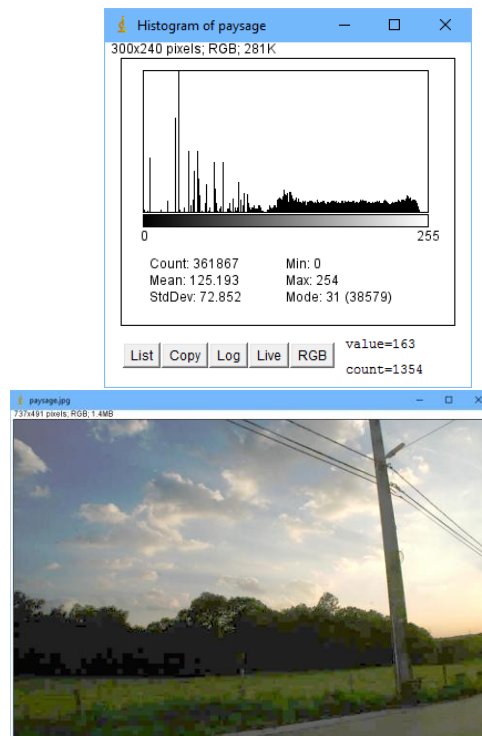
Question 4

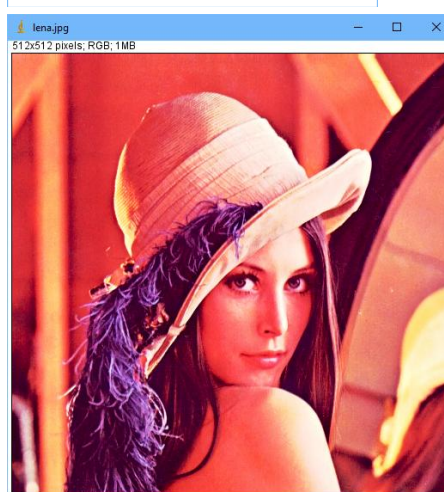
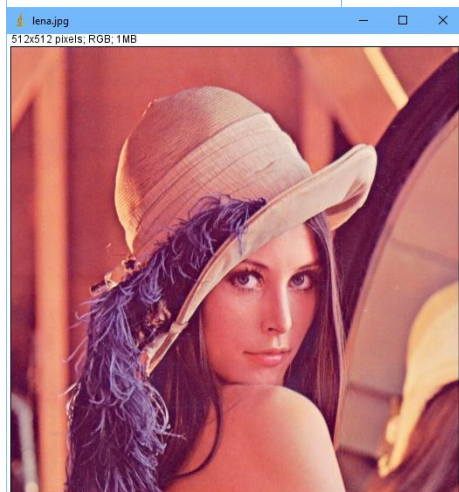
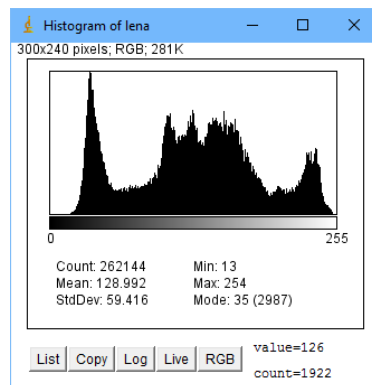
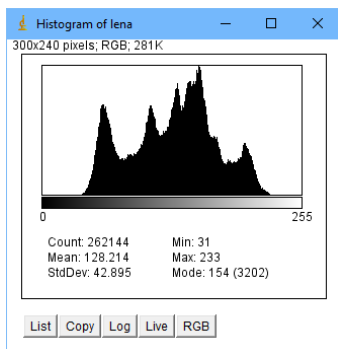
Nom du plugin : Egalisateur Couleur

Avant



Après

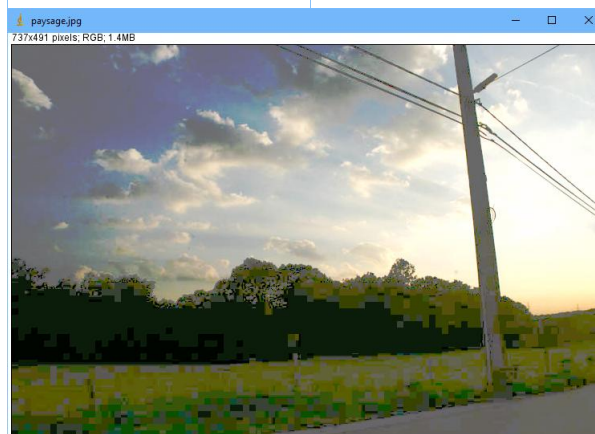
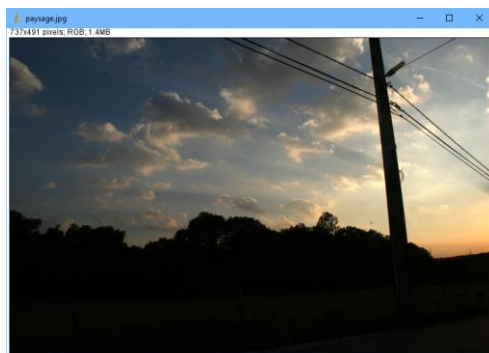
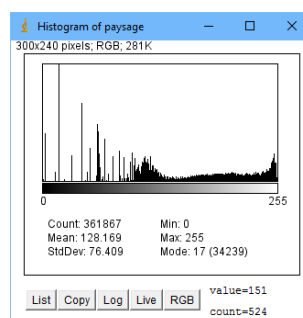
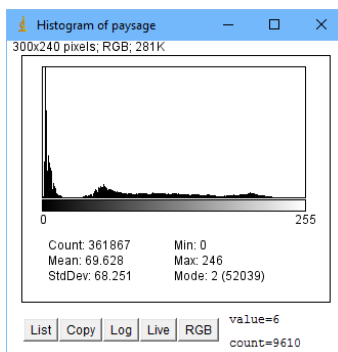


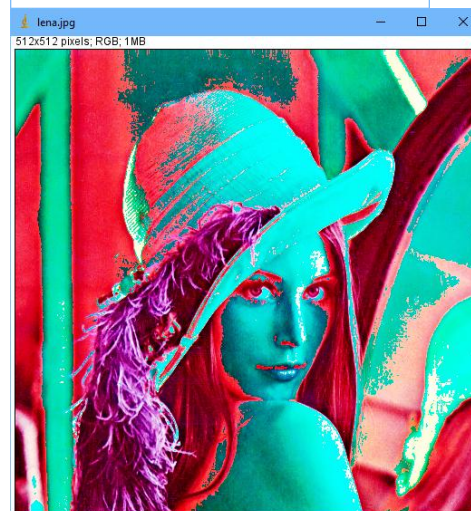
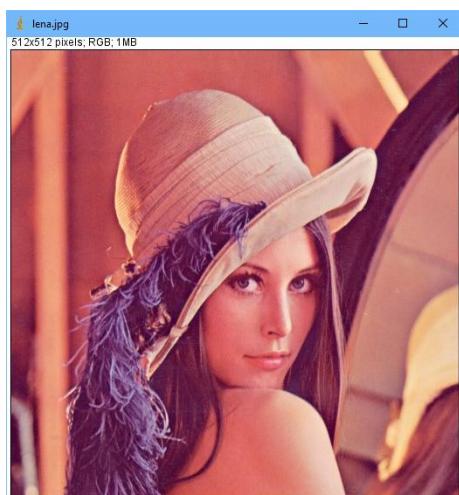
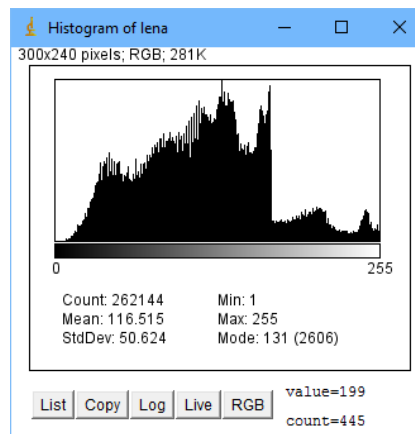
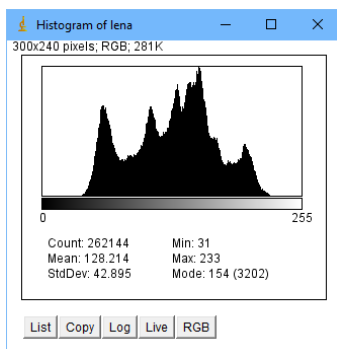
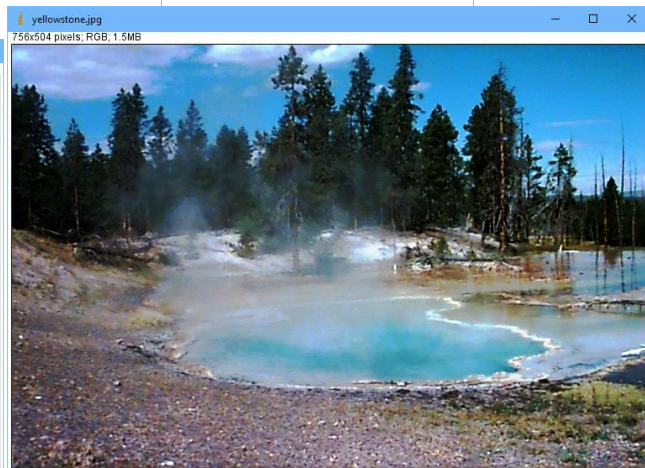
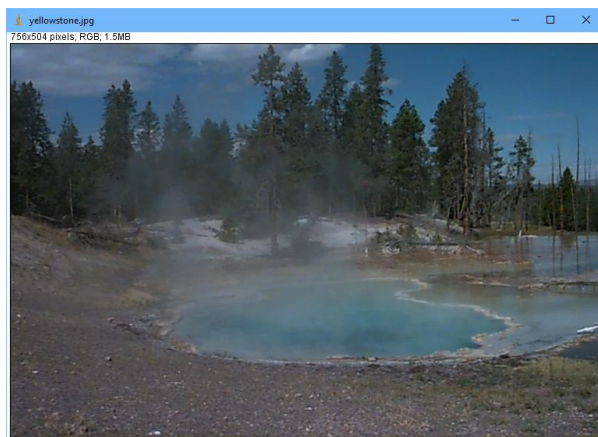
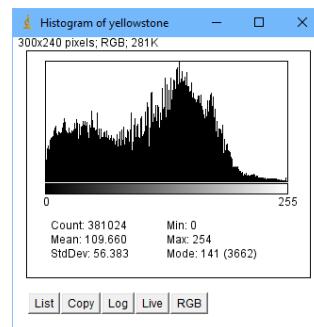
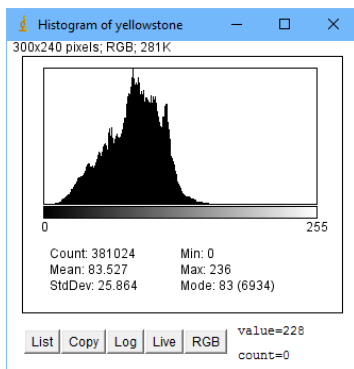


Question 5

Nom du plugin : Egalization Couleur Multi

Avant





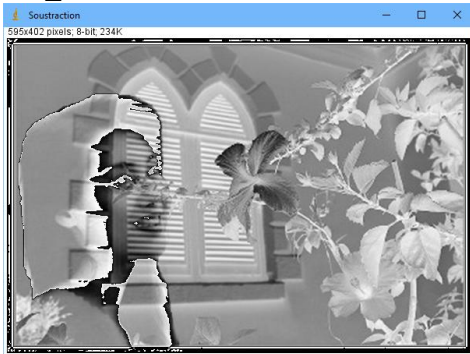
Les couleurs semblent ainsi plus naturelles (sauf pour Lena)

Exercice 3 : Soustraction d'image

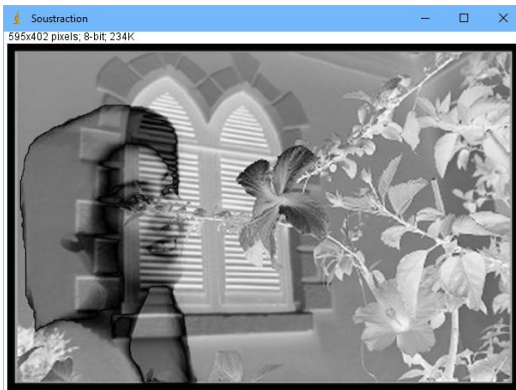
Question 6

Nom des plugins : Diff_Im → difference $A - B$
 Diff_Im_Abs → difference $A - B$
 Valeur absolu si $A - B$ négative
 Diff_Im_0 → difference $A - B$
 Valeur 0 si $A - B$ négative

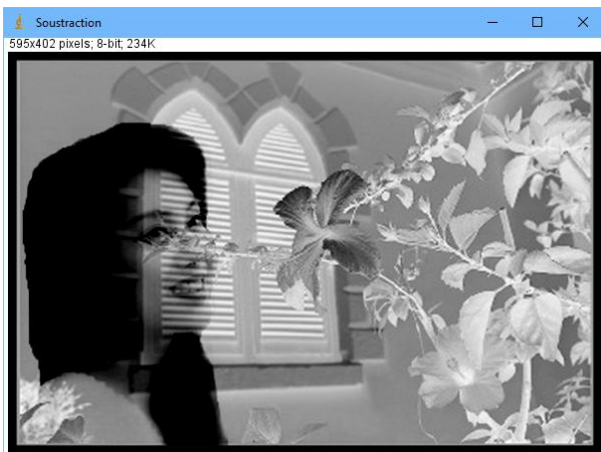
Diff_Im



Abs



0



Question 7

Nom des plugins :

Difference

DifferenceA

DifferenceB

DifferenceAsupB

DifferenceBsupA

→ différence des deux images

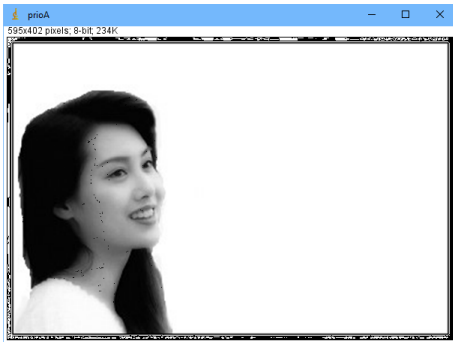
→ différence des deux images priorité a A

→ différence des deux images priorité a B

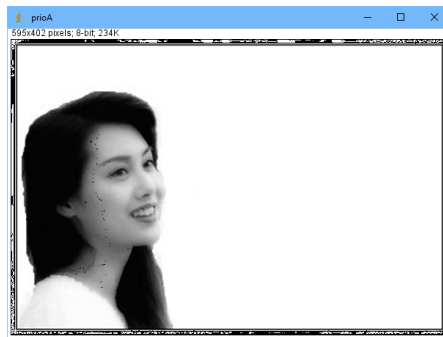
→ différence des deux images si A sup

→ différence des deux images si B sup

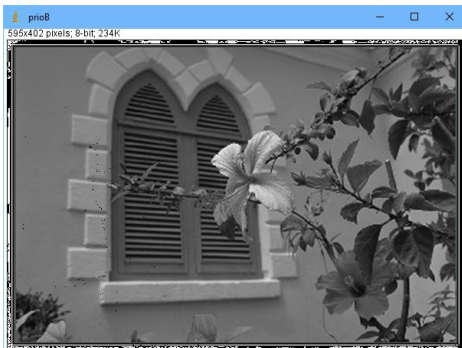
Difference



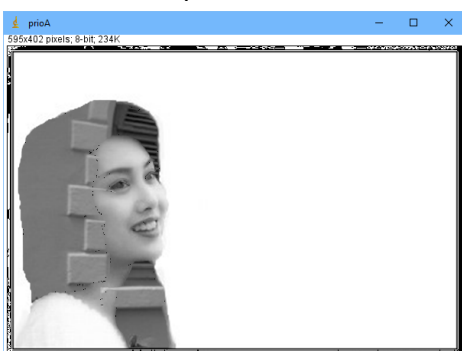
DifferenceA



DifferenceB



DifferenceAsupB



DifferenceBsupA

