Computer Vision Homework 2

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**Part 1**

(a) A binary image (threshold at 128)

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| Original Lena | Binarized Lena |
| Main code fragment | |

(b) A histogram

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| Histogram of Lena |
| Main code fragment |

(c) Connected components (regions with + at centroid, bounding box)

Mainly implement with classical connected components labeling algorithm, but I replace equivalent labels in runtime instead of at the end. Thus there is no need to remember label equivalences. Result is created with 4-connected.

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| Connected components on binarized Lena | Connected components on grayscale Lena |
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| Main code fragment for connected component computing | |
| Main code fragment for bounding box and centroid computing | |