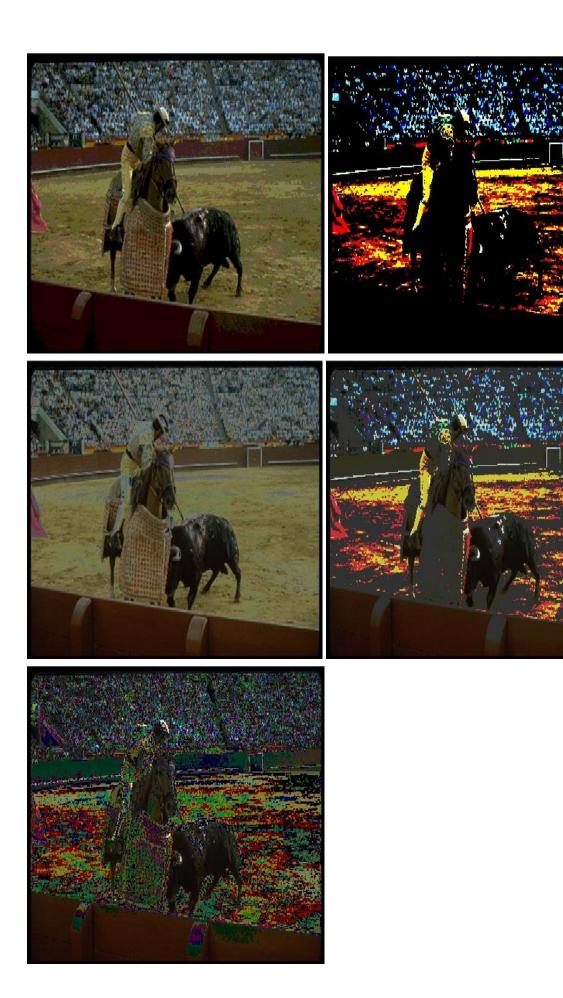
영상처리 과제 #3

16010980 이우석

<실습 A >





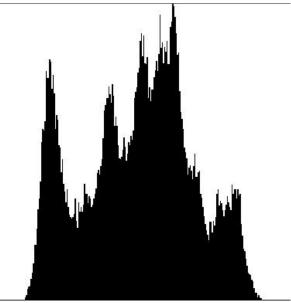


< 실습 B >

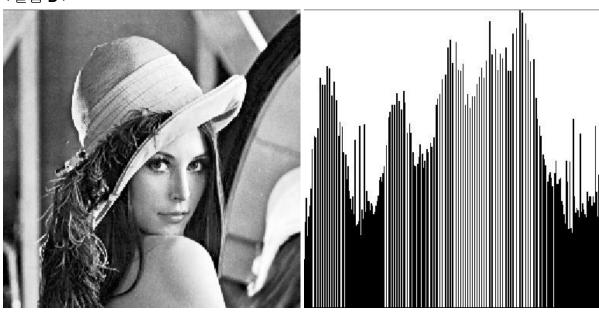


<실습 C >





<실습 D >



< 코드 >

```
< List2_1.c >
/* initialize Look-up table */
  for (i = 0; i < 256; i++)
  {
     /* preserve an original image or y is equal to x */
     temp = i;

     /* Negative image */
     // temp = 255 - i

/* Contrast Stretching */
     // temp = (float)i * 2 - 128;</pre>
```

```
/* Compression */
     // \text{ temp} = (\text{float})i / 2 + 128;
    /* Posterized */
     // \text{ temp} = (i / 32) * 32;
     /* Threshold */
     if (i > 128) temp = 255;
     else temp = 0;
     */
     /* Bounded Threshold */
     if (128 < i \&\& i <= 200) temp = 200;
     else if (50 < i && i <= 128) temp = 50;
     else temp = i;
     */
     /* Iso-intensity contouring */
     /*
     if (60 < i \&\& i < 80) temp = 0;
     else if (100 < i \&\& i < 120) temp = 0;
     else if (140 < i \&\& i < 160) temp = 0;
     else if (180 < i \&\& i < 200) temp = 0;
     else temp = i;
     */
     /* Solarize */
    if (i > 128) temp = 255 - i;
     else temp = i;
     */
     CLIP(temp, 0, 255); // 맵핑된 후의 밝기 레벨(L) 값이 0 보다 작거나, 255 보다 크면
안되기 때문에.
    LUT[i] = temp;
                          // LUT[i] 에 temp 값을 초기화.
  }
< lplib.c - histogram_equalize() >
unsigned long max = 0;
/* find a max */
       for (i = 0; i < 256; i++) {
               if (histogram[i] > max) {
                       max = histogram[i];
               }
```