

In this problem, you will predetermine a threshold value and use this threshold and histogram matching to segment a new crack image.

And apply this threshold to segment a new image, "newImg" (00143.jpg from the concrete crack dataset), with and without histogram matching.

- Determine the reference threshold value from `refImg`.
- Use this threshold to segment `newImg` without histogram matching. Save the results as `newImgBW`.
- Match `newImg`'s histogram to `refImg`'s histogram. Then use the reference threshold to segment the histogram-matched crack image. Save the results as `matchImgBW`.

```
matchImg = 227x227 uint8 matrix
    146    146    150    150    150    150    150    150    150    150    150    150    150 ...
    146    150    150    150    150    150    150    150    150    150    150    150    150
    150    150    150    150    150    150    150    150    150    150    150    150    150
    146    146    150    150    150    150    150    150    150    150    150    150    150
    146    146    146    146    150    150    150    150    150    150    150    150    150
    146    146    146    146    150    150    150    150    150    150    150    150    150
    150    150    146    150    150    150    150    150    150    150    150    150    150
```


