Computer Vision Hw #4

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Homework Description

- Write programs which do binary morphology on a binary image:
 - o (a) Dilation
 - o (b) Erosion
 - o (c) Opening
 - o (d) Closing
 - o (e) Hit-and-miss transform

• Dilation



• Erosion



• Opening

Just call the function: Erosion & Dilation

```
new_graph = Dilation(Erosion(arr, kernel), kernel)
```



Closing

Just call the function: Erosion & Dilation

```
new_graph = Erosion(Dilation(arr, kernel), kernel)
```



• Hit and Miss

```
arr1 = Erosion(arr, J)  # J, K are the 'L' shape kernel
arr2 = Erosion(inv(arr), K) # inv function inverse the pixels between black
and white
res = intersec(arr1, arr2) # do the intersection calculation
```

