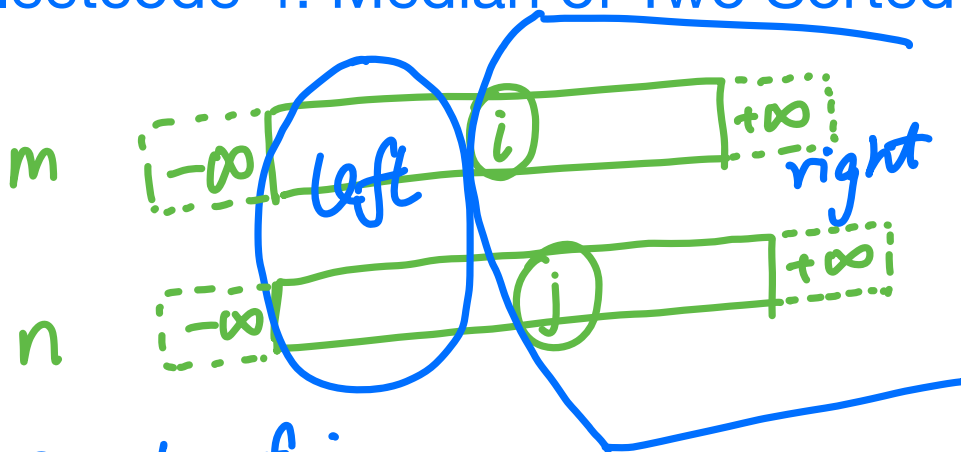


# leetcode 4: Median of Two Sorted Arrays



① value of  $j$  :

$m+n$  :  
 1' even e.g. = 10  $j = \frac{m+n}{2} - j$   
 left : 5 elements  $= \frac{m+n+1}{2} - j$

2' odd e.g. = 10  $j = \frac{m+n}{2} - j + 1$   
 left : 5  $= \frac{m+n+1}{2} - j$

$\Rightarrow j = \frac{m+n+1}{2} - j$

② length of  $m, n$

1'  $m$   $\boxed{2}$   $i=0$   $j=2$

$n$   $\boxed{1, 3}$

2'  $m$   $\boxed{1} \boxed{3}$   $i=0$

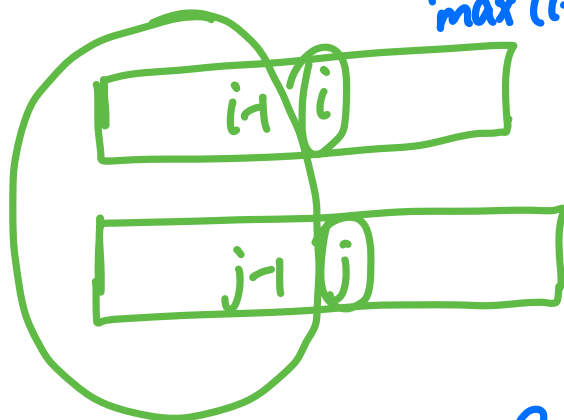
$n$   $\boxed{2} \boxed{1}$

$\Rightarrow \text{len}(m) \leq \text{len}(n)$   $j=2 \times$

③ result:

$m+n$ : 'even e.g. 10.

median: 5th + 6th  $\leftarrow \min(i, j)$   
 $\uparrow$   
 $\max(i-1, j-1)$



2: 'odd e.g. 9

median 5th  
 $\uparrow$   
 $\max(i-1, j-1)$