Search in Rotated Sorted Array
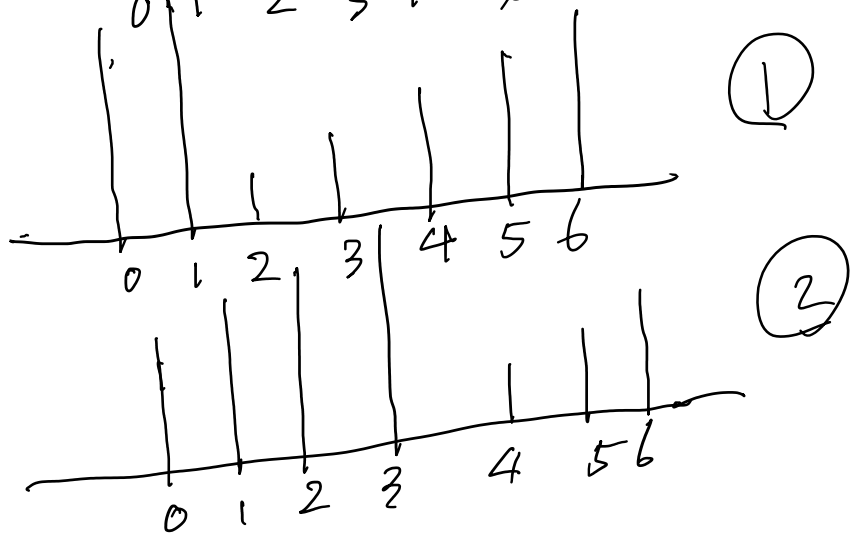
Non - Rotated

$mid = 3$

Rotated

①

②
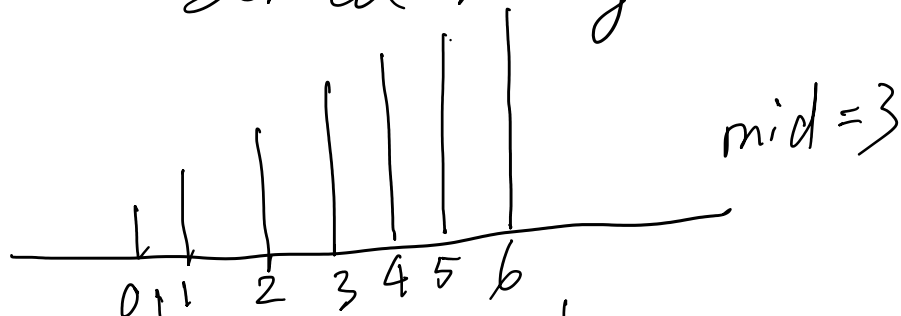
After Rotation we have the above 2 conditions,

$\quad$ If $mid < start \quad$ case ①

$\qquad$ if $target \geq mid$ and $target \leq end$

$\qquad\qquad mid + = 1$

$\qquad$ else $\quad end = mid - 1$

else $\quad$ case ②

$\qquad$ if $target \geq start$ and $target < mid$

$\qquad\qquad end = mid - 1;$

$\qquad$ else $\quad start = mid + 1;$