

Target = 0

$[0, 1, 2, 4, 5, 6, 7] \rightarrow [4, 5, 6, 7, 0, 1, 2]$
ascending

774 \Rightarrow left of middle is ascending

$\begin{cases} 4 > 0 \\ 7 > 0 \end{cases} \Rightarrow \text{target in right side}$

left right

↓ ↓

[4, 5, 6, 7, 0, 1, 2]

↑

middle

$1 > 0 \Rightarrow$ left side is ascending

$$\begin{cases} 0 \geq 0 \\ 0 < 1 \end{cases} \Rightarrow \text{target in left side}$$

left, right, mid
↓
[4, 5, 6, 7, 0, 1, 2]

$0 == 0 \quad \therefore \text{return mid}$