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

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

condition to search in
the left :

target = 3.

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

① left is sorted &&
   target is within range.

② right is sorted &&
   target is not within range.

if ( nums[left] < nums[mid] &&
     target >= nums[left] && target <= nums[mid] ||
     nums[mid] < nums[right] &&
     target >= nums[mid] && target <= nums[right])