

No: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## \* Search in Rotated Sorted Array

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

search for 0

result = 4 (index of 0)

if there's no value = -1

divide into 2 parts &  
do binary search in  
relevant part.

for dividing into 2 parts to find threshold we can use  
binary search given value belongs to first part or  
the second part.

mid check with the end

$\text{num[mid]} \leq \text{num[end]}$

2 binary searchings used.