L	earch in Rotated Te	exteel Away	
The Molen requires	O (logu) nevntine	which implies a mi	odsteed lines search.

[Koy Idea: Fiven though the array is rotated, one of the halves is always sorted: - Either weres [left...mid] is sorted, or

· nums [mid... right] is serted.

We determine which half is sorted and check if the target liès in that half. If yes, search that half, else search the other half.

Algorithm Iters:

1. Initialize tropenters:

-left =0, right = nums site()-1

2. While left <= Sight:

Find mid = (left + sight) /2

If num [mid] == target - return mid

Petermine which half is setted.

If nums (left? <= nums [mid] - Jeft heelf sorted

If target in [nums [left]], nums (mid) xorch left half; else search right half

Elx-Right half serted

If target in Comms [mid] mums [sight], reach right half; else rearch left half

3. Peturn -1 if not pound,

| Complexity: | Time: O(logn) (benary rearch)
- Tpece: O(1)