Ternary Search

4 Soxted array

L> search space into three garts

10 1st mid 1 2nd mid 2 3rd

$$mid1 = \ell + (\kappa - \ell)//3 = 0 + 9//3 = 3$$
 $\ell = 0$, $\ell = 0$ ln case of ternary search we will be dividing our search

$$mid2 = 2 - (2 - 1)/3 = 9 - 9/3 = 6$$

portion using 2 middle

$$\frac{\chi=5}{}$$
 — Searching element

$$arc(mid1) = = x$$

L) return mid!

- return midd

Pseudo code where x represents

xx asolmid 1)



else:

mid1+1, mid2 -1

2nd search space