```
Ternary Search
                         L> Search space into three garts
4 Sorted array
              1 2 3 4 5 6 7 8 9 10

1st mid 1 2nd mid 2 3 8 d
     mid1 = l + (x-1)/3 = 0 + 9/3 = 3 l = 0, 2 = 9
     mid2 = 9 - (9 - 1)/3 = 9 - 9/3 = 6
                 X=5 -> Searching element
               ar(mid1) = = x
                    4) return mid!
              arr(mid2) = = x
                    yeturn midd
                xx arr(mid 1)
                    \sigma = \underline{\text{midl-1}} \longrightarrow 1st search space
                T= wigf+1 => 329 searcy zbace
               else:
                    mid1+1, mid2-1
                         2nd search space
```