> Peal Index in Mountain Acroy Decreosing Order Peak Increasing Order Elevent 5 A [i] >A[i+1] Asi-1]CACiJa A[P-1]< A[P] > A[P+1] (1) Circar Search is the Brote Force Approach. O(r) -> T.C. -(2) Ophinal Approach is Binary Sourch Index = 0, n-1 + Peak Elevent mid = S+(e-s) 2 A[vid-1] < A[vid] > A[vid+1] L> return mid Allan One will be then the T.C. discarded

core 12 mid -> peac Case 2 wid left (Inc) Right Search Seorch A [mid-1] EA [mid] Ord=wid-1 St=midt while (st c=end) {

wid= st(e-s(2))

if (A[wid-1] c A[wid] > A[wid+1]) -> return

wid

if (A[wid-1] c A[wid]) / (Increvent Right

st = widt| Pseudocode e Ose dec -> left end= vid-1

Similarly vid plere will be so So the