O Agray: - It is a collection of items (numbers, characters, etc.) which are stored at contiguous memory location. It always starts with index O. eg:
S 6 21 72 89 30 5 2012 2016 2020 2004 2008 2000

O arr [i] = array clement

L > Index of the array.

Name of the array.

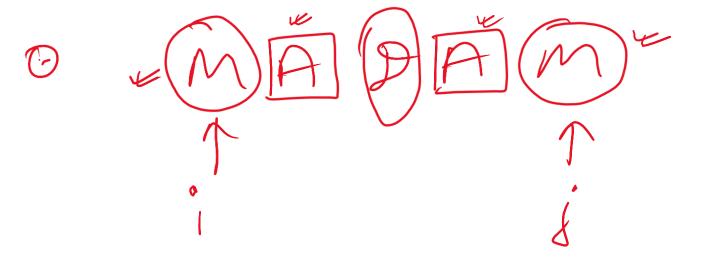
0 ar (0) = 56

O an = $(\frac{20}{5}, \frac{5}{7}, \frac{201}{18}, \frac{501}{19})$ o Sortel = (5, 7, 18, 19, 20, 201)Amay Of Heap Sort, Merge Sort je T.C = 0(n-logn)

1	Two Pointer Approach:
1.	In this technique, you will have two pointer to store index locations of
	first and last element.
2,	Depending on the logic you choose g either you have to increment first pointer or decrement last pointer or do both.

3. Continue the stop No 2 guntil the first pointer > = last pointer index location. 10/20/30 40/50/60 70 inti=0, j=6; while (i < j) lereif () > er i++ i j -- j

0 are = $\begin{bmatrix} 26, 5, 31, 81, 3, 10, 15 \end{bmatrix}$ target = 25) i=0, j=6, ar (i) + arr (j)=25< 0 art $= \begin{bmatrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 \\ 3_1 & 5_1 & 10_7 & 15_7 & 26_7 & 31_7 & 81 \end{bmatrix}$ i++ (Greater _____Value 0-- (Leser Value)



O CRICKEE

Manipulation Technique!-It will be used in the problems where you need to restructure or reorder the input array elements.

 $an = \begin{bmatrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 1 & 1 & 1 & 1 & 2 & 2 & 2 & 2 & 3 & 3 \end{bmatrix}$ art = (1, 2, 3) ; L (K)= 1 9 for (int i= 1; i< h; i++) if (aci] != aci-1]) Lack]=aci],