×.	Mediam of 2 sorted arrays (VI)
ledian -	If we get the ported alway to 2 halves of
lengths,	median = map(lower halb) + min(u
i-e-,	the average of the 2 nos. invediately verst

o the cut.

readh a money Indon of LLR 1 0/0 0/0 0/0 ··· 2 - Maria (a. 0/14 miles 214) 1.

1/1 3 1/2 4 2/2 5

2/3 7 313

3/4 8

nuddle cut in ruh a cases should always be placed on the inth position (O based).

- autrosihon = N

We need to find a cut in this array with while divided the 2 arrays into 2-halves such that

< =

any no in both array's left halves combined

arrays right hables combined.

Observations

Ohow, N,= len of orr 1 N2 = len of arr 2

> with imprirant order positions, theore are in total? $2N_1+1+2N_2+2$ positions

- There must be crowdy (N(+N2) postions on each order of the aid.
- 2): It we we cut at a position C2 in arr2, 1 then C1 in arri (aux position must be = N1+N2-C2
 - (3) When 2 works C18 C2 are made, we have 2 sets of L2R:
 L1 = arm1 [autrosikm-1] R1 = arm1 [autrosikm]

 TC1-17 P1=20021[C1]

= arr 1
$$\left[\frac{c1-1}{2}\right]$$

R1 = arr1 [c]

 $L2 = \frac{2}{2} \frac{2}{2} \left[\frac{2}{2} - \frac{1}{2} \right]$ Pr = $\frac{2}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2}$ Lings Ri [123/9] (10/0 4 5) How to find it this is the required out? condition to be satisfied): Le ord Le should be largest no. of the arris orrez's left halvos continued respectively. risky haling regnericalis right habits respectively.

[2 conditions to be satisfied of

[1) condition > [1] <= R1 and 12 <= R2

(always satisfied: away is rowsed) (ii) last died => IL1 <= R2 and 22 <= R1 (onix-cross coudition) Use birary search to the out the perfect aut.

After we find both the WKR18. C2, we also set LL, 12, RI, R2 : median = $\left(\text{man}(L_1, L_2) + \text{min}(R_1, R_2)\right)$ B irany sound wde: matter int n1 = anr J. h2e(); int n 2 = anr 2. 8/20(); if (n1<n2) return fu (avr2 iavr1); int 60=0, ni= n 2 * 2; 11: (025000) taking 60 & hi with legath of arriz became we will be determining the cut while (to <=hi) pohlan in R2 primarily way H ind c2 = (6+hi)/2; parameters. int c1= n1+n2-c2; //egn Hotel cartier, check! double L1 = cook(1==0)? INT-HIN: avr[(c1-1)/2];

1 L2 = C2 ==0? INT-HIN: avr2((c2-1)/2); " R&1 2 (C1 == 01 #2) ? INT-MAX: anv [[C1/2] ; " R2 = (C2 == n2 * 2) ? INT-MAX: anv 2 [C2/2] if (11> R2) lo=mic2+100; < else if (L2>R1) hi=c2-1; 3 Meturn (maso(L,1L2) + was non (R,1 R2)/2)

rotum-1;

BS could how? if (LI> K2) us demotes that anv1's course half is too bis, it contains a bij element that needs to be diminated home to be half and full into right hab of our I left t .. We need to shift will in any to see which wearing to shift cut 2 in over to right.

MARI MARIA

TALLS TO SAMELY DE MARKET DE MARKET

if (L2 6R1) un demotes arr2's lower coll is loo by . We ned to ruit out 2 in am 2 to left, which didts cut in and to villet in turn.

ofherwise -> perted cutsoberred of & Cr

1) un can mou eiflur CI or CZ using binary reands. But it's less time falling to hind the cut in the shorter array -

2) Edge case: when cut falls on other 2(N201) or last rosition. This exceeds the boundary of the array for the rounds this, We inverse and and arra have excha elements. Bathanrays have [2NT_MIN, [1,2,2,4], IN7-MAX)
expha at-1
expha at-1

If L fall out of Dounds, L= INT-MIN , R= INT-MAX

Alander of the Lord and the figure of of the second of the second of the second

The same of the same of the same of the same of the same of

the majority days on the first is the state of th

一种人工,相关的人工的工作。

The contract of the contract o

ALLEY OF MUST AND ALLEY AN

A bridge of the Alpen, I was the

All Mathie

Some Andrews States

Something the second of the second

The Call of the

MATERIAL STREET, CARROLL STREET, CARROLL STREET,