Median of Two sorted Arrays

Eliven two sorted arrays nums 1 and nums 2 of size m and n respectively, return the medion The overall run time complexity should be O(log(m+n))

((musering) arujar

Colution obj : cen solution

EX.

Input: nums 1 = [1,37, nums 2 = [2] out put: 2.00000

constraints!

- · numsl. length==m
- · nums2.length==n
- 02 = M <= 1000
- · 020=0=1000
- 1 < = m+n <= 2000
- -10^{6} z=num 1 (17, num s 2 (17) z= 10^{6}

Algorithm

- > Input two sorted integer aways num I for anss?
- = n = nums 1, length + nums 2, length
- s create new away of 82e n to store all elem -ents of both aways
- copy all elements of nums 1 and nums 2 into ay

-suse Arrays sort (all) to sort the combined array -> if n is odd, return middle element ->arrin/2] -> If n is even, return the average of two middle elements (am[n/2-1] + auc n/2])/2.0 - Return the medean value as adouble. Charge Se (1) tempa (+tiems) asi tan m code: E-1752mun CHAINISO 93813 import gava util Arrays; import java util · Same! class Solutione public double fend Medlan Sorted Arrays (inti) nums) ent(7 nums2){ ent n=nums 1.length +nums 2.length; Ent () au = new int(n); tor (int i=0; i<numst-length+i++)(arrii? = nums[[i]; for Cint i=0; i chumsa. length & i++) (ami]=nums[[i]) Arrays sort (au); it (n 1.21=0){ retur on[n/1]) Telse < return (as [n/2-1] + au[n/2])/2.0; 1/4