I mear time selection all. To sefect inthe smallest element om an array of n nombox. Cets 515. 9/9/2020 YOU have S Sul

Part group has ××××× (May) The array into each grow median 5 numbers. XXXXX numbers XXXXX Sach Sach

(A), Recursively, we use I have true selection to (5). Swap MM with the fist element (3) tach group, after sorted, has a median Select 1/0 -th Smalest median from The the original away of n numbers. lotally, we have M's medians. 5 medians m/5 medians Called MM.

salect the ci-r)-th smallest from reasonely run lineating solection to The HIGH.

(7) IF C== P (6). So, now, The Brithmal array is updated after the sweet. I has tartition on this anal. if i < r, (50, The i-th smallest is one of the Numbers [0w return this MM as the in LOW, receively run linen the Select The i-th Smallest from the LOW HIGH. Index IV icth smallest Observation. This HAI

Each group has 5 numbers. How many How many medians How may medians that are < MM? in the original array that are < My municipal in the group & the median of We have at least 3. ns medians. In grand gut 10 Munkas

LOW) + |HIGH HIGH 00 YNW Y MoJ T (/LOW/) HILLI The [HIGH!

Show it rus in what care luan true (n) = ?? the wast-and true for safectory in the smallest Step (I) アのア + (2)x+ O(2) 4tep(4) [m(|LDWI)], [[W(|H))

Twess Tw(n) = O(n) < (m (n) [w(to) + [w(to) + air When 1 + ア:ス t a s

arjan's Scc All my students know this all is not even well-know Algorithm. から

I cure/handware to know ave gong Challey