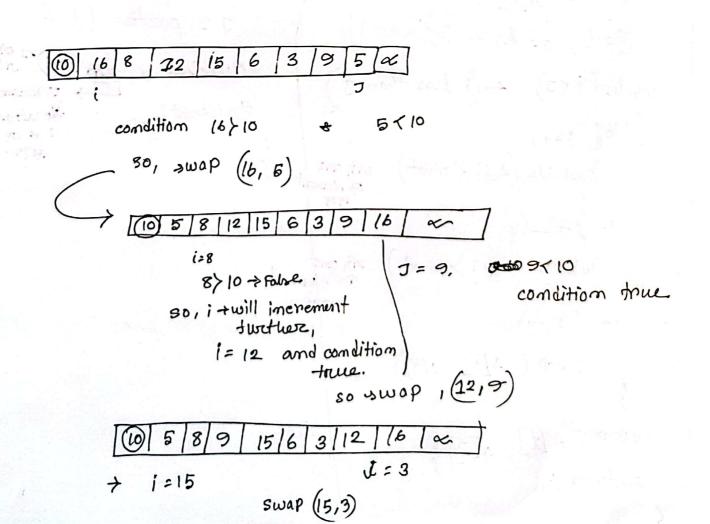
10, 80, 90, 30, 20 \rightarrow 10 is sorted position because \rightarrow all the elements before the element one smaller and all the elements are # 6, 3, 1, 2, 5, 9 \rightarrow 9 is sorted pos are smaller and all the elements are # 4, 6, 7, 10 16, 12, 14 \rightarrow 10 is sorted pos greater than the circled element.

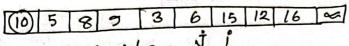
So, quick nort works on the idea that, an element is in the sorted position if all the elements left hand side should be smaller than that element and all the elements after that element (reigh hand side) should be greater than the element.

A + 10/16/8/12/15/6/3/9/5/2/we value.

i + with are greater
than 10 or pivot

i + will increase j = decrease.

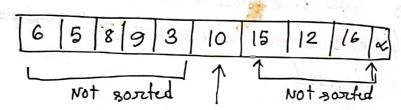




podo dobe.

in this case. i) J > (so we so med not go twither or example) i greater J.

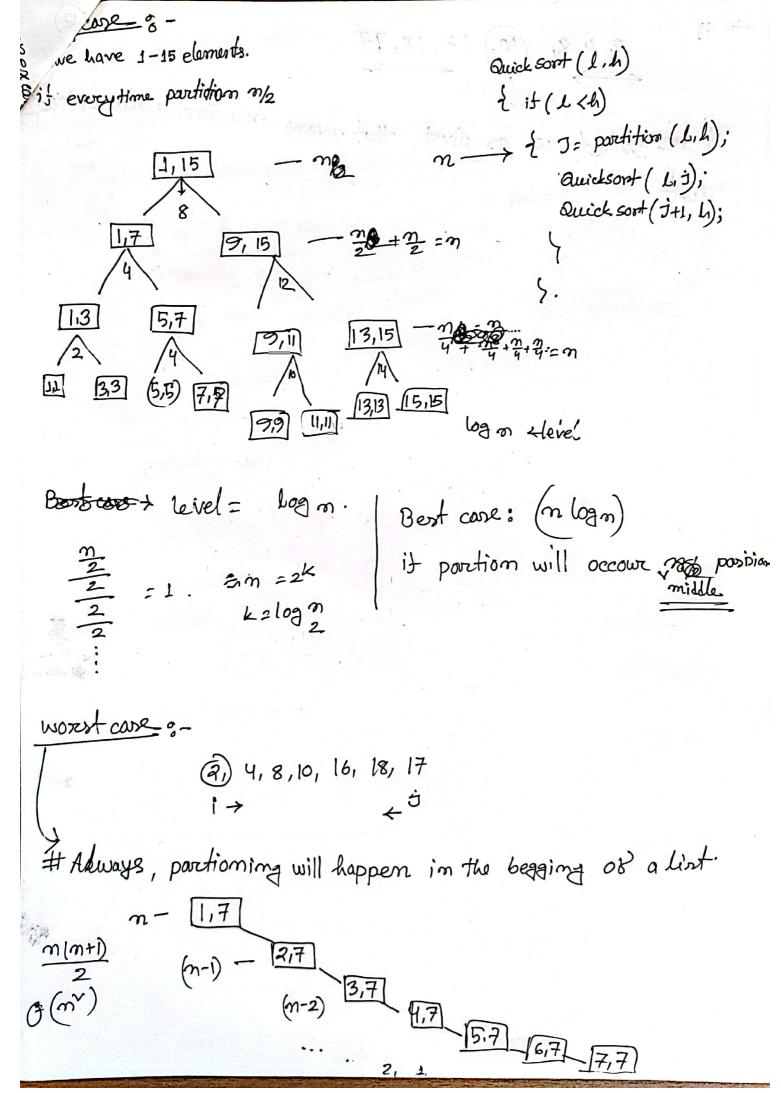
Now. Swap o with pivot = 10,



souted or partiontion position

partion (l, h) Quick Sort 1 it (LTh) pirot = A[L] i= l, j= h, while (i() + (i less than]) & dof 1++, } while (A[i] < pivot) do, of J --, (while (A[J] > prot) and element it (177) Swap (A[i], A[i]); swap (A[], A[5] } return j,

J = partion (L.L) Quickent 1, Jes J-1) ort Atricksort (+1, h).



if we select 10 as pirot that means median value of the