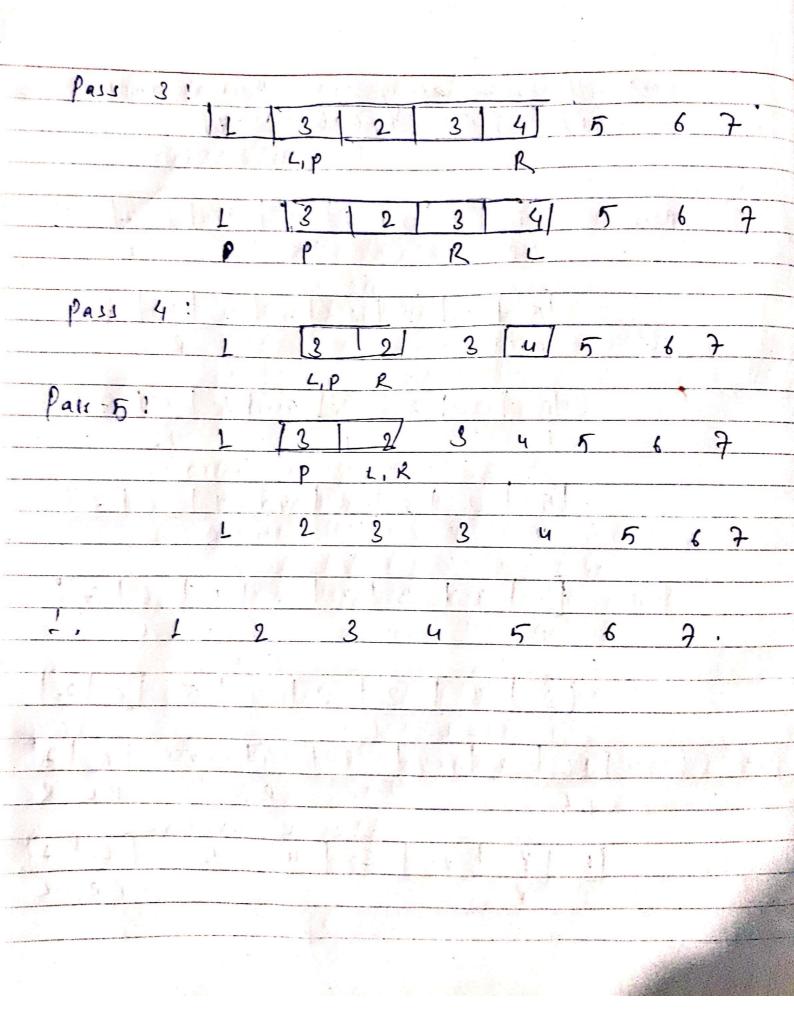
Pau



2. Write the algorithm of Brinary Search Algorithm! Start head the search element from the user Find the middle element in sorted list. lompare the search element with middle element. element found" and ferminate the function.

b. If both are not matching, then check whether the search element is smaller or larger than the middle element.

It if Search element is smaller than middle element then go to step-3, for the left-sub Vist of the middle element Go To step-3 for the right sub list of the middle element. 5. Repeat the same process until we find the seasch dement in the list or until sub-list contains only one element. 6. If fast element also doesn't match with the search element, the display " Element not found" and terminate the function. Stop

3. Write the pseudo code of Merge sont. [ sendo Code! function mergesont (arr): return orr

mid = length (arr) /2 left = mergesont (arr [o: mid])
right = mergesont (arr [mid: leagthlors]) return merge (left, right result = [] while left and right are not empty: if left-ROJ <= right Roj append left to) to result else remove right Col append remaining elements of left and right to result. repush result.

of sinned lust as stark. (puch of pop operation). Jush operation! void just litem) Nodetype \* nnode ; nnode: (Nodetype \*) mallor (size of (Nodetype)); if (top == 0) nnode -> info = item; nnoole -> neat = NULL; fop 2 nnode; nnode -> neat = top; top: node;

printf ("stack contain no element: [n"]
return;

5. Find the wefficient of 2 y 3 and the middle term in the expansion of (2n+3y)? John general term in the expansion of (a+b) n,3
general by.

True = (n) and pr b= 3y r is the term number index. The general ferm becomes:

[7] [7] [22] 7-1. (34) 1 Iral = (7). 07-r n7-r. 3 yr Weffrerent of 24y3

1. Weffrance = $(\frac{1}{3})2^{\frac{1}{3}} = 15.1$	10
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