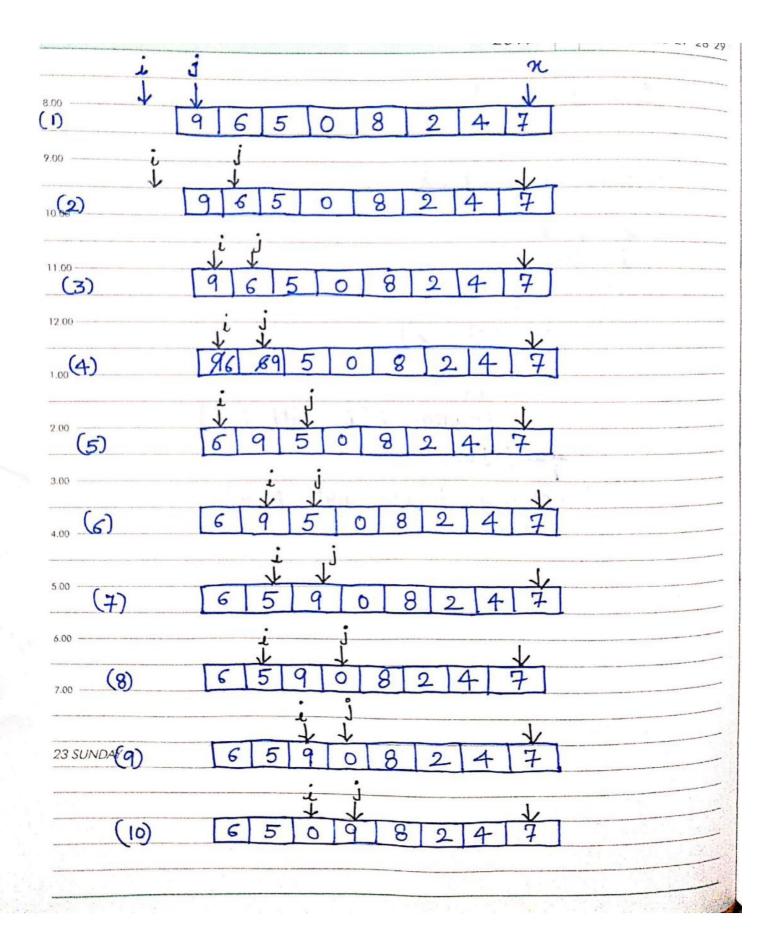
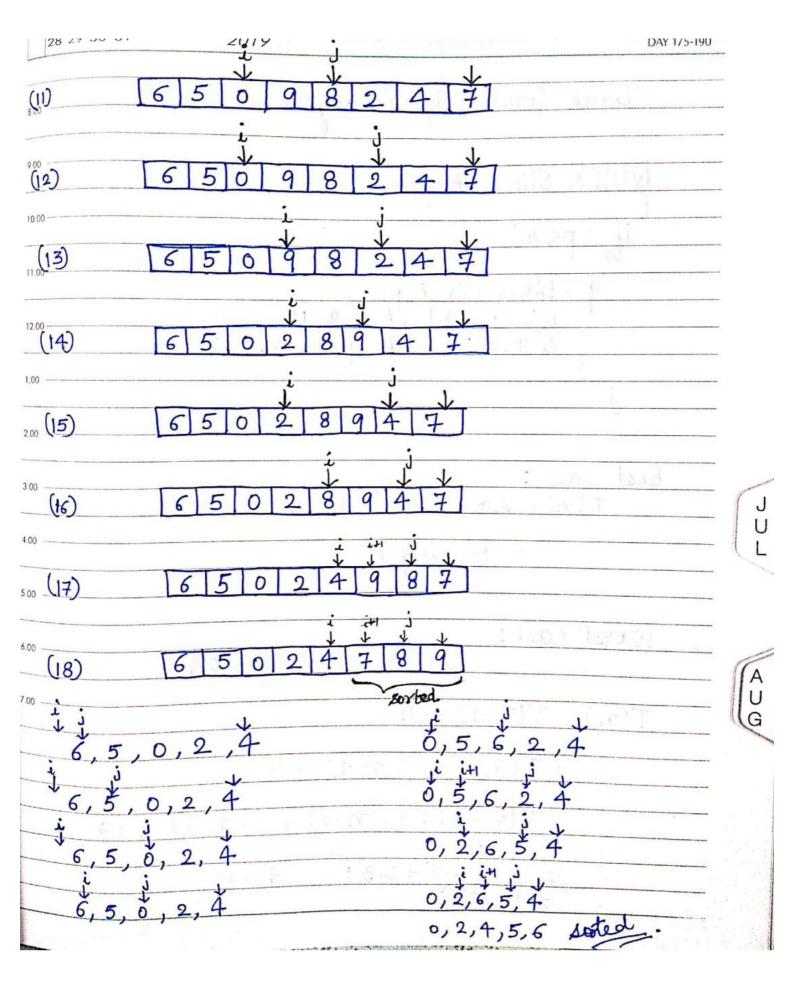


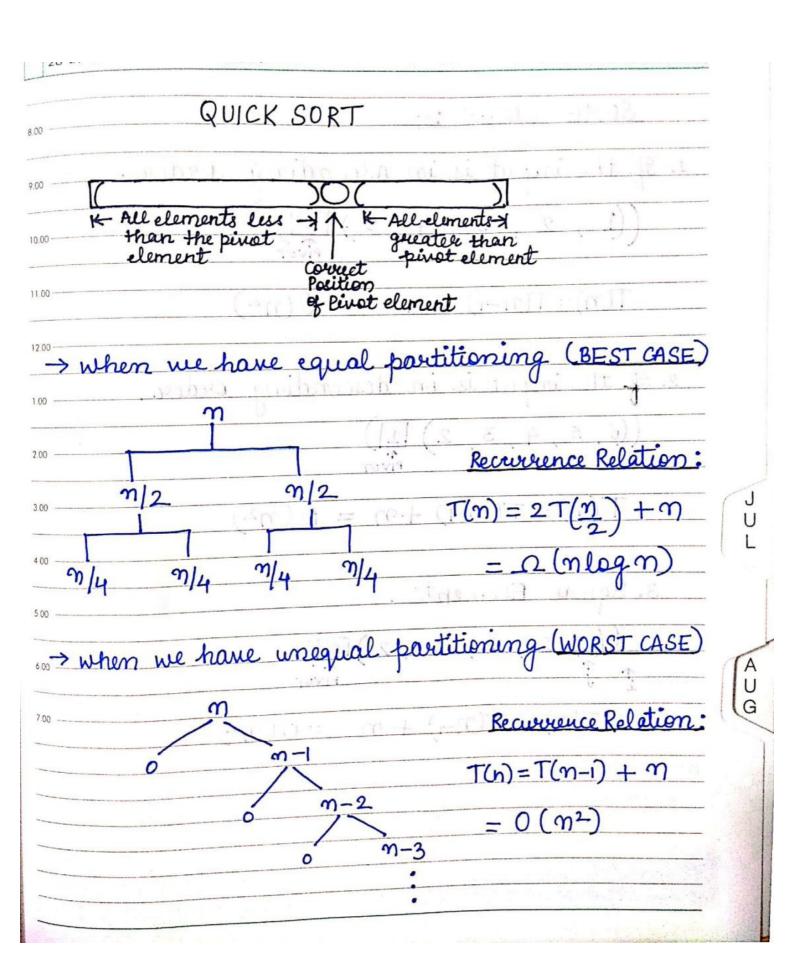
DESIGN & ANALYSIS OF ALGORITHMS BCSC0012

LECTURE 11 : QUICK SORT

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8.00 SOME CASES :-
2001. If the input is in ascending order.
10.00 ((1, 2, 3, 4, 5))))) (1)
$T(n) = T(n-1) + m = O(n^2)$
1.00 2. If the input is in descending order.
(6, 5, 4, 3, 2) 1) PIVOT
$T(n) = T(n-1) + n = 0 (n^2)$
5.00 3. Equal Elements.
((2) 2, 2, 12, 2) (2) Î Î Î PÎYOT
$T(m) = T(m-1) + n = D(m^2)$
= (0) = (0) $= (0)$ $= (0)$