| | | | - Part tion | |
|----------------|------------|----------|-------------|------------|
| · Taca | j= set | i= set | nt. | |
| coenent | spht side | i jonder | 9 1 | Quick Son |
| ter exemples | to Jish | 2 to NUL | 6 3 | Sort |
| Horse of | elen | | 1 4 8 | • , |
| L a E i J | ment eithe | | 2 | le cation |
| & proceed upto | er fem | fivat | 11 5 | is sich |
| eto pivot | The At | | | settien of |

5, 4, 6, 3, 7, 1, 2, 17, 5 Buck Sort. is it only increment if supap the elements a[v] < a[pirot], then every time till it reache pivot location element If a[i]==a[pirot] then swap a [i] & a [pivot] Pivot nivar Pivot Pivot of is pivot for · Initial Setting Array A, and setting of 1=j-1 1. Compare At i] & At Pivot] as at i] < at pivot], then increment at i] < at pivot], then increment in i due

1: i+1 and swap of A[i] 3 A[i].

2: i is incremented till it doesn't

2: i is incremented till it doesn't

2: och to pivot sprincrement in i due

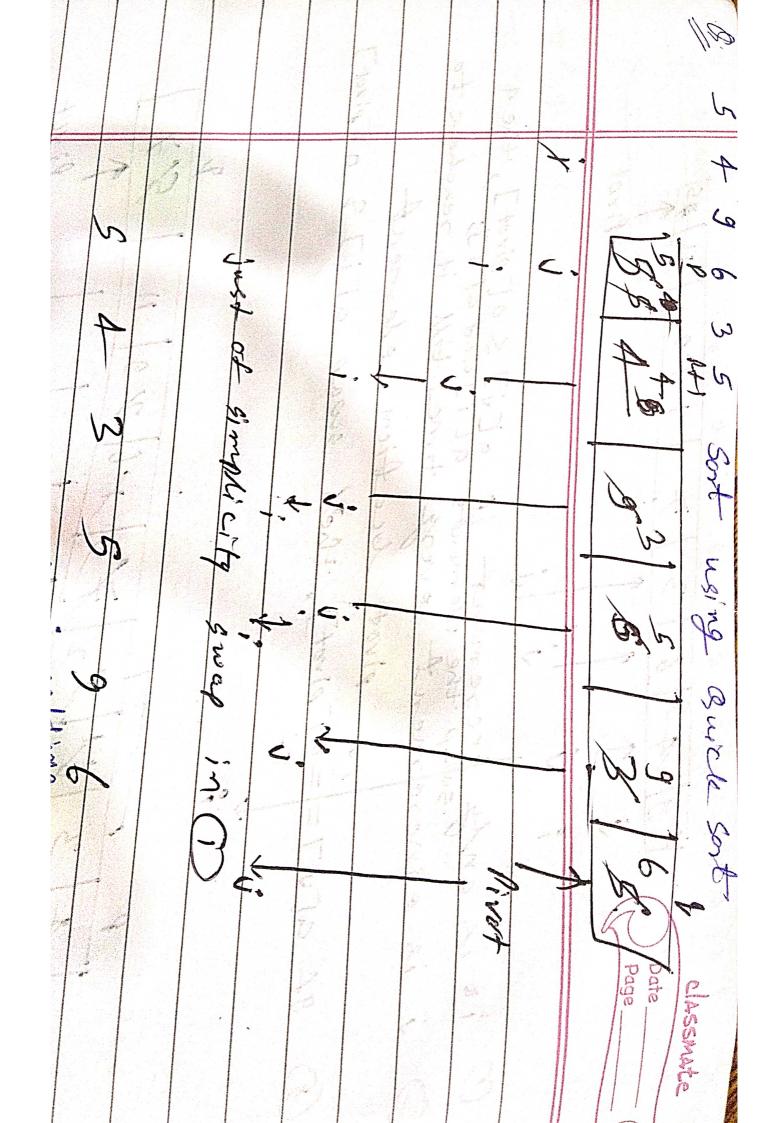
3: 9f A[i] == A[livot] then swap A[i] \$

A[livot]

A[livot]

| Algorithm Queck soft Quecksoft (P, V) it (P < E) they if (P < E) they if (P < E) they il is in the position of they il solve the subposition il solve the subposition il solve the subposition gueck sort (VH, VI); |
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| noa | | | Ş.4 | | | 13 coop | |
|-----|-----------|---|-----------|-------------|---------|---------------|-----------|
| | | ~ | | for (120 to | 1= 0-1. | tioning (A | |
| | swap A | | AL OIL S | 8 | | | 1 P 2 7 % |
| | LEIU, ALV | | Atpivot]) | 4 | | (3) 1/8 11 Mg | - |
| | | | | | | | Eng for |



News É pertingent,

Worst Case Ballo Sort Classmate Page T(n) = T(n-1) + O(n) Raddomined Quick Sen Mace the elements in sandom order Dandon Pivot Schechin. Charces of getting reduced worst 1. Average Case Complexity O(nlegn) 2. Worst Case O(n2), when elements are gorted to apply for quick sort.