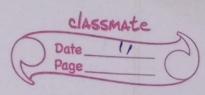
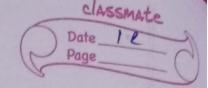
| | CIA | SSMA | te | |
|---|----------------|------|----|---|
| 6 | Date_ Page_ | 10 | (| 9 |

| | TUTORÍAL: 3 |
|------|--|
| 3446 | the saturation of the property of the saturation |
| | Linear Search (int +arr, int m, int key) |
| | For (1 x = 0 to n-1) |
| | if [arrti] = key) |
| (unc | Jedurn i |
| | deturn -1; |
| | b. Taralla) a Trobactors of professions |
| 2 | insertion sooti |
| | iterative: |
| | for J=2 to n, |
| | $Ke\lambda = d[1] i = 2 - 7$ |
| | while i>0 and all] > leay |
| | a(i+1) = a(i); |
| | $(° = \grave{c} - 1)$ |
| | a(i+1) = key |
| | |
| 3 | Complexity for sort algorithms are |
| 1 | Bubble sort 2. Selection sort |
| | Best = O(n) |
| | |
| | $Avg = O(n^2)$ $Avg = O(n^2)$ |
| | |
| | Insestion sort megre 8001 |
| | pest - Olm |
| | (NOTO) WOND = O(NOTO) |

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| | Best = Olnlogni Country sout |
| | Pari |
| | 10000 |
| | Ang = Olnlogn) Ang = Olnlogn) Ang = Oln+k) |
| | |
| | 3001 |
| | Best Ohlorn) |
| | |
| | mag O(wlodu) |
| | Tites |
| 4 | I terative psecido code |
| | Binary search |
| | int binary seasen (Intaty, inte, into, inta) |
| | * white(2 = 2) |
| | |
| | in+m=12+7)/27 |
| | iF (95m) = = n) |
| | se uns |
| | i'F (arm) < n) |
| | 1 -101+11; |
| | 10180 |
| (3) | Time complexity Destance - D(1) |
| | 3 |
| | return - 1; word + Case -> O(logn |
| | Augces -1 ol (vgn) |
| 70 | |



| 5. | Implace Sooting: Bubble, selection, intertim |
|---------|---|
| (10) | online sort: sel; insertion |
| | Stable Sust: >> Bybble, in sention, meage |
| 6 | Quick soft is monthly used in practical wised |
| | it ès tre fortest general purpose 8007 In |
| | the mend of choice of stability is impossions |
| | and space in available meage sont might |
| 7. | T(n)= T(n/2)+1 put n=n/2. |
| | T(n/2)=T(n/4)+L |
| | T(m) = T(m/4) + L + L $T(m/4) = T(m/8) + L$ |
| | T(n) = T(n/8) + 1 + 1 + 1 |
| 141 x 4 | $T(n) = T(\frac{\eta}{2}k) + k$ |
| 10 0 | $\frac{n}{2k} = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = $ |
| 03763 | $T(n) = T\left(\frac{n}{2\log n}\right) + \log n$ $T(n/n) + \log n$ |
| | 1-1 togn = v(n) = otto |

