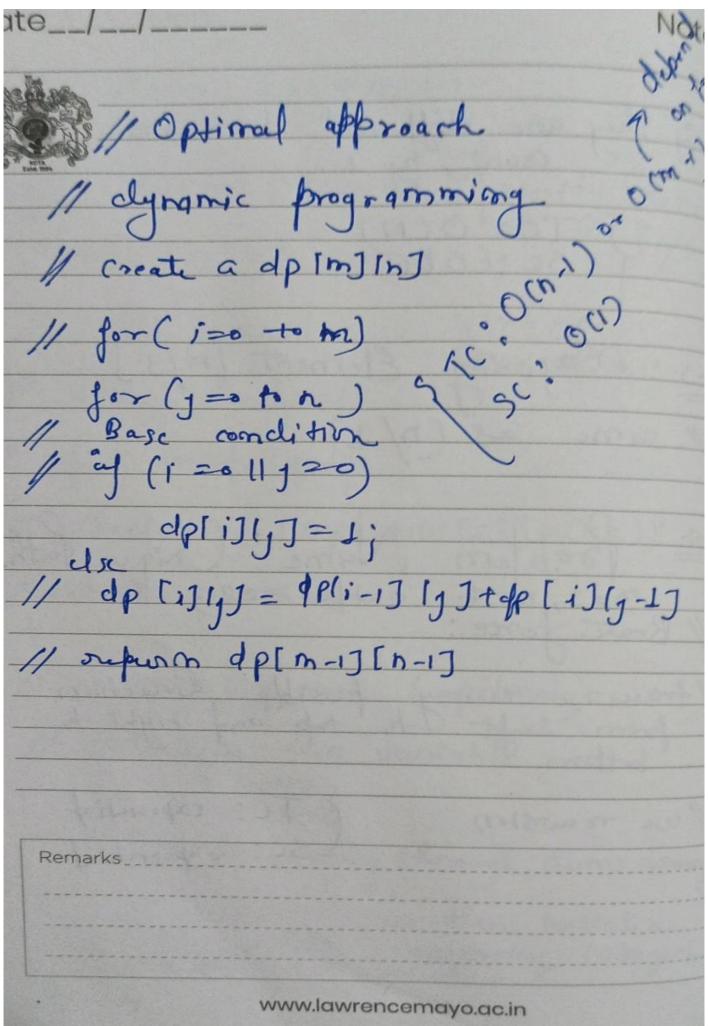


| lotes                                   | Date/                                       |
|---|---|
| y they are different of Sc: 00          |   |
|   | Element [n/3]                               |
| 9-4: Problem  m=3, n=4  // Brute force: | Name: Unique Paths<br>output = 28           |
| 11 fraverse ever                        | y possible direction<br>to top and right to |
| / Use reconsing                         | SC: exponential  SC: exponential            |
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| Notes   | Date/_/     |
|---|-------------|
| 9-5 Problem Name: R   | euerse kirs |
| nums = $[1/3, 2/3, 1]$<br>output = 2                        |             |
| Mondition of reurse   | pairs -     |
| ity and assolisty   | 2+ arrlyJ   |
| // Boute force // Coreate u variable pu // for (i = 0 +0 h) | C, 20;      |
| for (j=i+1 to h)  |             |
| if (avo 1; ]>2 + avo  | 77)         |
| Pairs ++;   |             |
| return pais.  |             |
| TC: OCM2)   |             |
| Remarks SC :- O-C-1)  |             |
|   |             |
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| Date/   |
|---|
| 1/optimal using Morge Sort  |
| I call left reconsists and right recursion and then call manye of |
| both left and right sub-array                                     |
| I After they copy back to original array                          |
| Tc: O(N) +O(N) +O(NbyN)   |
| S(: O(N)  |
| S(: O(N)  temp wector.  |
|   |
|   |
| Remarks   |
|   |
|   |
| Annanari on a wear  |
| . www.lawrencemayo.ac.in  |