1463. Chesny Pickup II

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T,

-> fixed starting point.

2 3 1 2 8 4 2 2 5 to 3 5 12+9=2L

will breedy work— weedy will not wook

hear sez of uniformaty

nation bez in the grid chemoiss

are not uniformally distributed & gridy works

on withorn distribution.

that soil from action se much horses.

All porty by 80501 + All porty by 80502) & tike of them,

Imp: - In order to write reculpratice we have to make syne that robot & sobot & sobot where the super box it might happen their is common cell in robot's party & robot's party once.

You don't be like that let's do for 80601'

first & get the maximum sym & then for

8062 in that cause you have to traverse

all the path for both & if their are

Something common then you have to subtract

that cell from actual anson & this will

be much longer.

Rules for Recursion

- express every tring in terms if (it, it) & (i2, i2)

 and write sown all the base cases
- 2 explore 911 tue patus
- 3) retin the maximum sym

whenever you have fixed starting points & variable anding points them start recursion from fixed starting points.

There are two types of Base cases

Destination
Base
(ese

Bound Bass

) out of bound base bond 6456 base case Case If any 8060 go out of bound two that path should not be considered. Here we are only taking f(i,js, j2) i not is & viz bez for bety sobo is & iz will be same. 11 out of Bound Base case if (j1 <0 // j1 7=m // j2<0 // j27m) 11 Destination Base case. if (i == h-x) if (j==j2) return a [i][i]) retain acid(i) +acid (i) 11 Explore 911 19085ibilites. # maxi=0 for (di) -> - + to ++) for (dj2) - 1 to +1) 9 if (j1== j2)

[maxi = max(maxi, f (if) j+dj+f)242)

antij[i] maxi = max(maxi, a[i][i] +a(i)[i] + -P(i+, i++j++j+) mapi,

3 explore all possibilites: i.e. if 80601 -> 81 move left then 80502-182 can move in three different cell So total movements con = 9 so there are g possibilities of path. $\left| \frac{1}{\sqrt{1 \cdot (1 - 10)}} \left(\frac{3^n + 3^n}{3^n + 3^n} \right) \right|$ $S \cdot (1 - 10) \leftarrow S + 40 \cdot K \cdot S + 90 \cdot C \cdot C$ DP Memoization T.C.= O(NAMAM) X9 8.(-= 0 (NAMAM) +0 (N)

abulection (i) first write the base cases. (ii) express every state in for 100P Ustades - 91, J1, UZ. (i) Base case dP[n][m][m] // first Base case -> Destincation Base case. - if (i== n=) -> for i=n-+ the j+ >0 tomL 12 - 0 to M-L for (is to m-s) of for (j2 → 0 to m-s) (if (js == jz) dp[ns][viz][viz] = gridling(viz) else ap(n-1)(i+)(i+) (i2) = gris (rr)(i+) + griz[n-][v2]; 11 for 100p for (i=n-2 to 0) for (j= 0 to mus) for (iso to mes) = Copy the Decorage