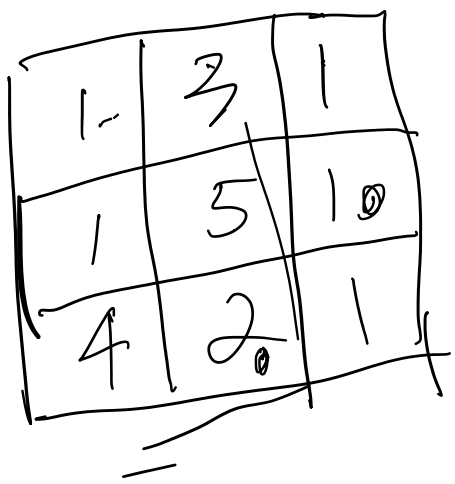
# Minimum Path Sum

Saturday, April 18, 2020 8:54 PM




grid

$f(3,3) = 1+3+1+1+1 = 7$

Greedy $1+1+4+2+1 = 9$ X

No Greedy

DP $f(3,3) = \min[f(3,2), f(2,3)] + grid[2][2]$

$= \min(1+1+4+2, 1+3+1+1)+1$

$= 6+1 = 7$

Thus $f(m,n) = \min[f(m,n-1), f(m-1,n)] + grid[m-1][n-1]$