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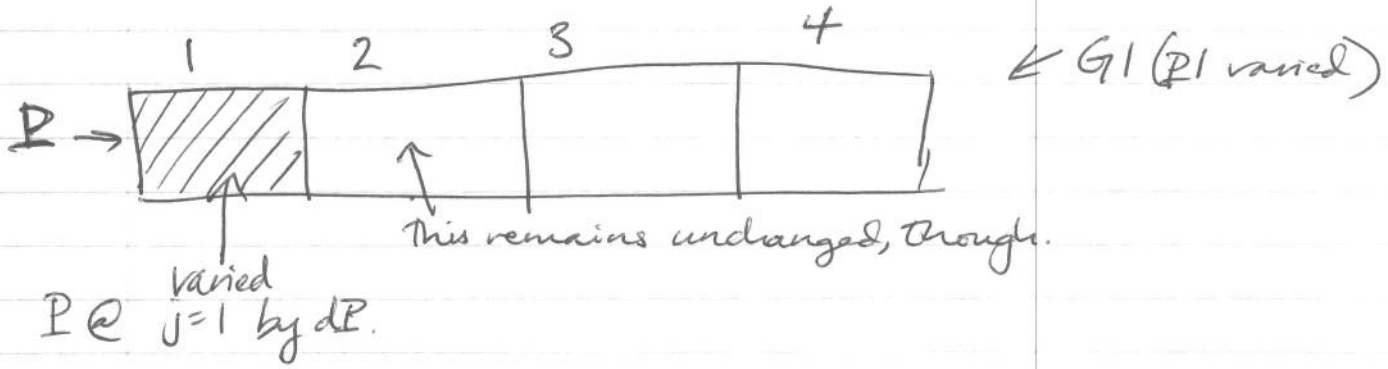
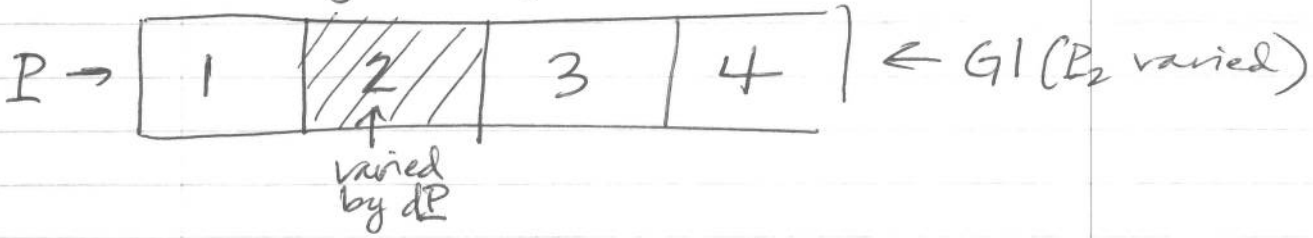
$$\partial C_{ik}^{j} = \frac{\partial G_i^{j}}{\partial x_{k-1}} \rightarrow \frac{G1(j+1) - G1\,varied(j)}{\Delta x_1}$$

$$\frac{G1(x_{j+1}) - G1\,varied(x_j + \Delta x_j)}{\Delta x_j}$$



evaluating G_1 @ $j = 2$



P_1 = original P_2 = varied

$$\partial E_{22}^{k=j} = \frac{G1(P_2\,varied) - G1(unaltered)}{P_2\,varied - P_2\,original}$$

$\partial E_{11}^{j=1}$ / ∂P_1

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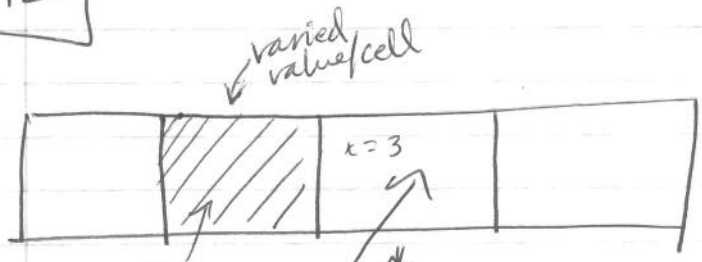
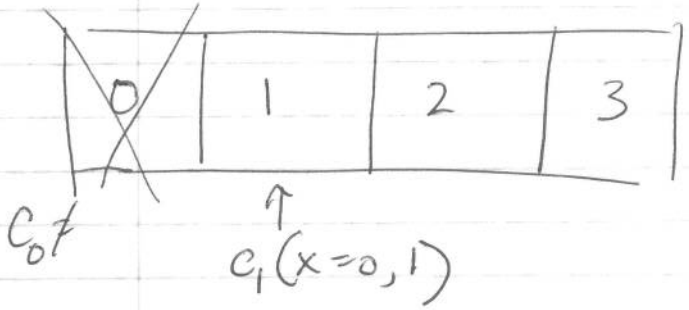


~~how does f(x, x+1) change~~
when

how does f(x-1, x, x+1) change when evaluated here?
x = 3



when you're changing x=0, evaluate C=1