$$Opt(j,w) = Max(Opt(j-1,w), - Opt(j-1,w'), - Opt(j-1,w'), - Opt(j-1,w') if w'< w;$$

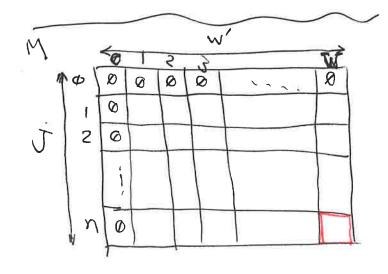
$$Opt(j-1,w') if j=0$$

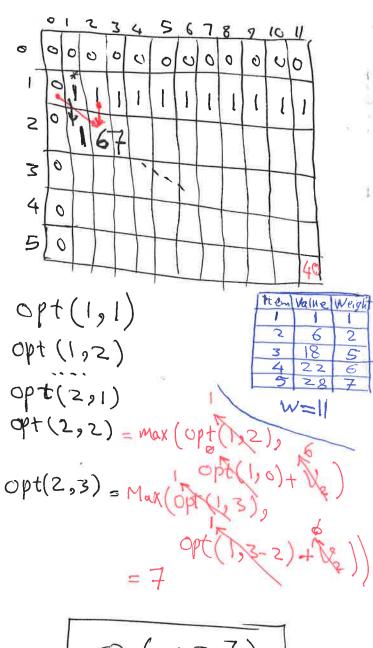
$$T(n) = T(n-1) + T(n-1) + 1$$

$$= 1 + 2 + 2^{2} + (n-2)$$

$$= 1 + 2 + 2^{2} + (n-2)$$

$$= 0(2^{n})$$





$$f = \sum (y_i - ax_i - b)^2$$

$$\frac{\partial f}{\partial a} = -2 \sum x_i (y_i - ax_i - b) = \emptyset$$

$$\frac{\partial f}{\partial b} = -2 \sum (y_i - ax_i - b) = \emptyset$$