

for k from 1 to n , $k = h + 1$
 $t[\ast][0] \leftarrow 0$ $k-1 = h$

$$I_2 \subseteq \overline{I_1}$$

$$D_2(w, n, table) \subseteq I_2(w, n, t) \ \&$$

$$\underline{(\forall i \in I_n) [t[i][0] = 0]}$$

$$L_2(w, n, t, k) \subseteq \overline{I_2(w, n, t)} \ \&$$

$$(\forall i \in \underline{I_{k-1}}) [t[i][0] = 0]$$

[for k from 1 to n

{ for s from 1 to w

$t[k-1][s]$

$t[k][s] \leftarrow \dots$

$c[k] + t[k-1][s-w[k]]$

$I_4(w, n, c, w, t) \Leftrightarrow w \in \mathbb{N}^+ \& n \in \mathbb{N}^+ \& c \in \mathbb{Z}^n_{\mathbb{N}^+} \&$

$w \in \mathbb{N}^+ \& t \in \mathbb{Z}^{n+1 \times \mathbb{N}^+} \&$

$(\forall i \in \mathbb{N}^+)(\forall j \in \mathbb{N}^+)[(i=0 \vee j=0) \Rightarrow t[i][j]=0]$

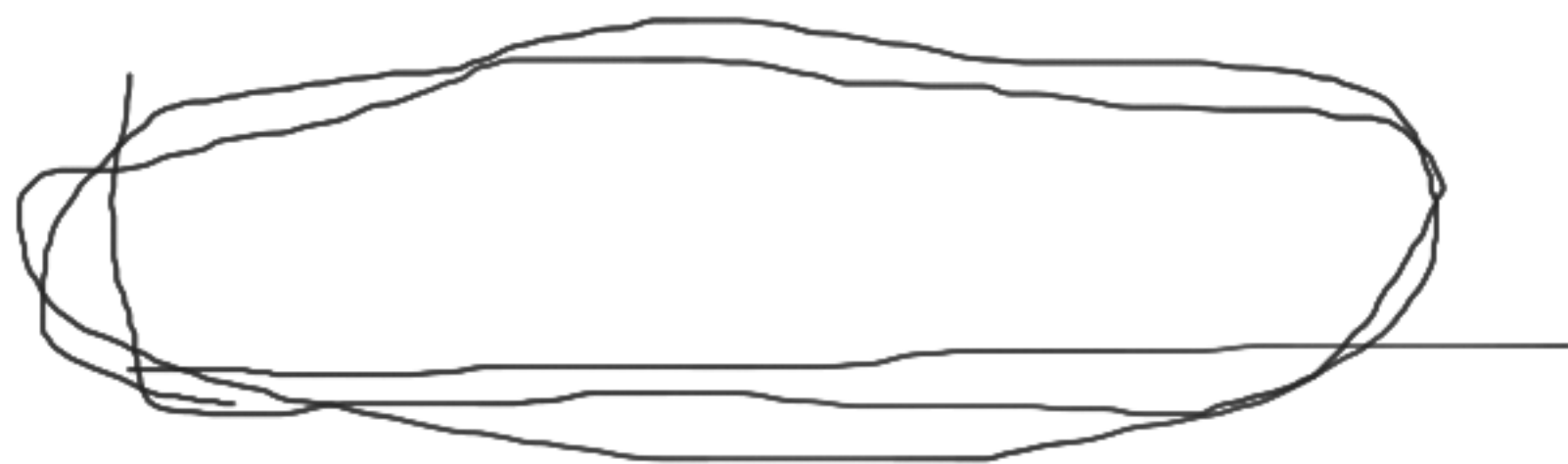
$$O_4(W, n, c, w, t) \leq I_4(W, n, c, w, t) \quad \&$$

$$(\forall i \in \underline{J}_{n+1}) (\forall j \in \underline{J}_{n+1}) [t \in I_i] \in \mathcal{I}_j =$$

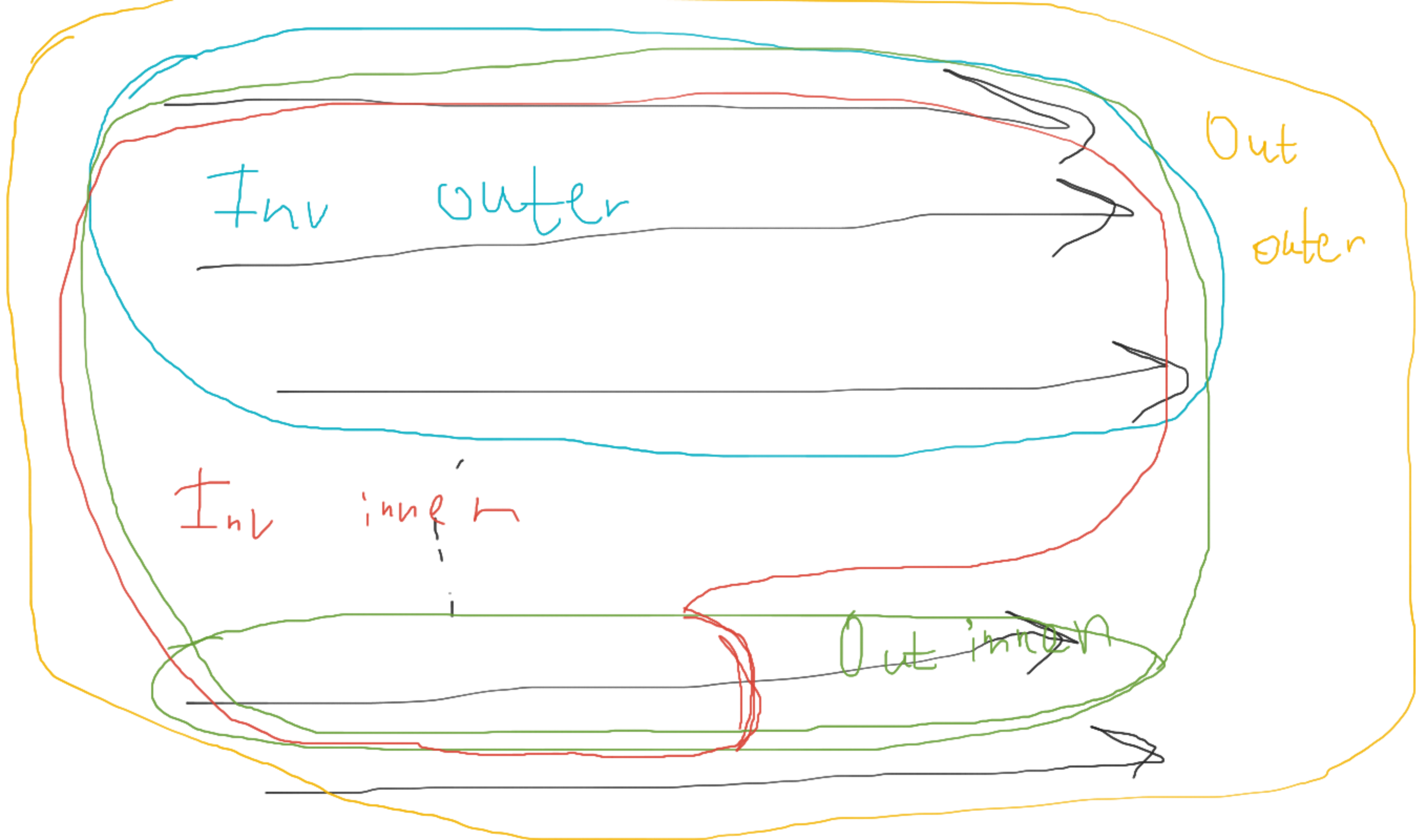
$$\max_{\leq W} \left\{ \sum_{\substack{k \in \mathcal{U} \\ \sum_k \text{weight}(k) \leq j}} \text{cost}(k) \mid \mathcal{U} \in \{ \mathcal{Y} \in \mathcal{P}(I_i) \mid \sum_{k \in \mathcal{Y}} \text{weight}(k) \leq j \} \right\}$$

$$L_4(W, n, c, w, t, k) \leq I_4(W, n, c, w, t) \quad \& \quad \dots$$

$O_5 -$ (Hit \int_k) (Hie \int_{WA})



L_5 (Hie \int_k) (Hie \int_S) - -





d_v



while

$\neq (\bar{x}, \bar{t}_0) \Rightarrow L(\bar{x}, \bar{t}_1)$
 $L(\bar{x}, \bar{t}_{i+1}) \& \rightarrow e \Rightarrow L(\bar{x}, \bar{t}_{i+2})$
 $L(\bar{x}, \bar{t}_c) \& \Rightarrow O(\bar{x}, \bar{t}_c)$



while

i_0, i_1, i_2, \dots

$S: \mathbb{N} \rightarrow \mathbb{X}$

l_0, l_1, l_2, \dots

$$d = r - l$$

r_0, r_1, r_2, \dots

$= \{0\}_{n \in \mathbb{N}}$

$$d(n) \geq 0$$

$$\begin{array}{l} d \downarrow \\ |r++ \\ |r-- \end{array}$$

