Ejercicio 3

Empty

$$W([\])=\emptyset\rhd[\]_s:[s]$$

Cons

 $W(U::V) = S\Gamma_1 \cup S\Gamma_2 \rhd S(M::N) : S au$ donde

- $W(U) = \Gamma_1 \rhd M : \sigma$
- $W(V) = \Gamma_2 \triangleright N : \tau$
- $\bullet \ \ S = MGU\{\tau \doteq [\sigma]\} \cup \{\sigma_1 \doteq \sigma_2 \mid x : \sigma_1 \in \Gamma_1, x : \sigma_2 \in \Gamma_2\}$

ZipWith

 $W(zip\ U\ and\ V\ with\ x,y\rightsquigarrow W)=igcup_{i=1}^3S\Gamma_i\rhd S(zip\ M\ and\ N\ with\ x,y\rightsquigarrow O):[
ho]$

donde

- $W(U) = \Gamma_1 \rhd M : \sigma$
- $W(V) = \Gamma_2 \rhd N : au$
- $W(W) = \Gamma_3 \rhd O : \rho$
- $\Gamma_{3'} = \Gamma_3 \ominus \{x, y\}$
- $\bullet \ \ S = MGU\{\sigma \doteq [\tau_x], \tau \doteq [\tau_y]\} \cup \{\sigma_1 \doteq \sigma_2 \mid x : \sigma_1 \in \Gamma_i, x : \sigma_2 \in \Gamma_j, i, j \in$ $\{1, 2, 3'\}\}$
- $oldsymbol{ au}_y = egin{cases} eta & si \ y: eta \in \Gamma_3 \ ext{variable fresca si no} \end{cases}$ $oldsymbol{ au}_x = egin{cases} lpha & si \ x: lpha \in \Gamma_3 \ ext{variable fresca si no} \end{cases}$