

Scribe

Por último, sea $a+b-1 \geq 0$ y $b+c-1 \geq 0$

$$T(T(a,b),c) = \max\{0, \max\{0, a+b-1\} + c-1\}$$

$$= \max\{0, a+b-1+c-1\}$$

$$= \max\{0, a+(b+c-1)-1\}$$

$$= \max\{0, a+\max\{0, b+c-1\}-1\}$$

$$= T(a, T(b,c)) \checkmark (4)$$

Luego, por (1), (2), (3) y (4):

$$\underline{T(T(a,b),c) = T(a, T(b,c))} \checkmark$$