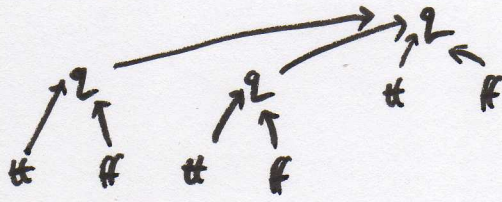


# TD 2

## Arènes

•  $\text{bool}^2 \Rightarrow \text{bool}$



0  
P  
0

$\text{bool} \Rightarrow (\text{bool} \Rightarrow \text{bool})$  the same!

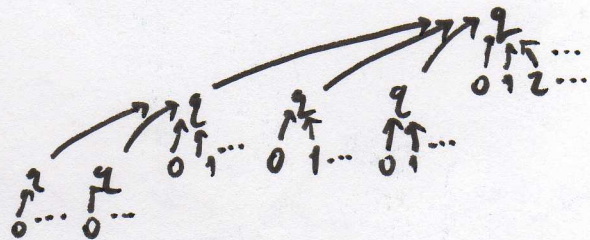
•  $\text{bool} \Rightarrow \text{bool}^2$



0  
P  
0

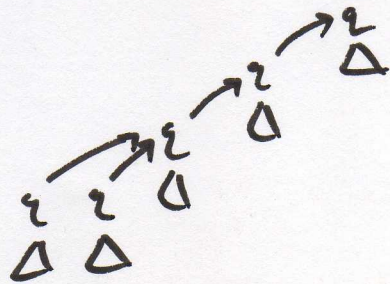
not a tree — a DAG

•  $(\text{nat}^2 \Rightarrow \text{nat}) \times \text{nat}^2 \Rightarrow \text{nat}$



0  
P  
0  
P

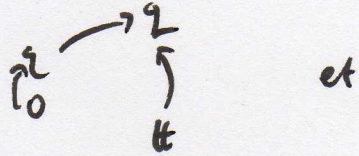
•  $((\text{nat} \Rightarrow (\text{nat} \Rightarrow \text{nat})) \Rightarrow \text{nat}) \Rightarrow \text{nat}$



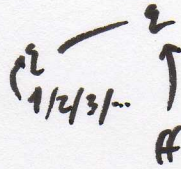
0  
P  
0  
P  
0

# Strategies

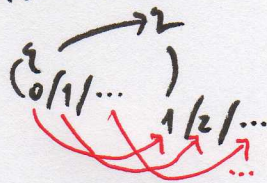
• zero! :  $\text{nat} \Rightarrow \text{bool}$



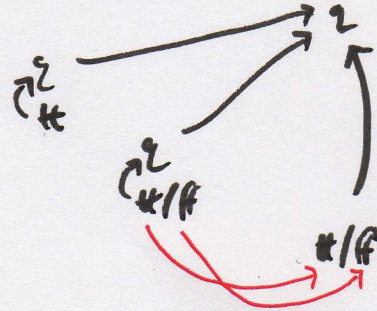
$\text{nat} \Rightarrow \text{bool}$



• Succ :  $\text{nat} \Rightarrow \text{nat}$



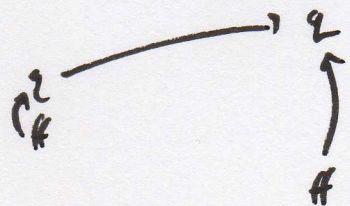
•  $\text{etc}_G$  :  $(\text{bool} \times \text{bool}) \Rightarrow \text{bool}$



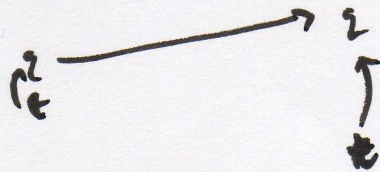
*etc\_G*

$x, y : \text{bool} \vdash \text{if } x \text{ then } y \text{ else } \text{ff} : \text{bool}$

et



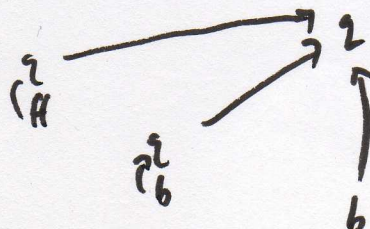
•  $\text{out}_G$  :  $(\text{bool} \times \text{bool}) \Rightarrow \text{bool}$



*out\_G*

$x, y : \text{bool} : \text{if } x \text{ then } \text{tt} \text{ else } y : \text{bool}$

et



$b \in \{\text{tt}, \text{ff}\}$

