

$t=0$   $(A, 0, 1)$

$\sqrt{1-p_1}$

$\mu_F(0) \cdot \Delta = p_1$

$E=\Delta$   $(A, \Delta, 1-p_1)$   $(B, 0, p_1)$

$\sqrt{1-p_2}$

$\mu_F(\Delta) \cdot \Delta = p_2$

$t=2\Delta$   $(A, 2\Delta, p_3)$   $(B, 0, p_4)$   $(A, 0, p_5)$   $(B, \Delta, p_6)$

$t=3\Delta$   $(A, 3\Delta, p_7)$   $(B, 0, p_8)$   $(A, 0, p_9)$   $(B, \Delta, p_{10})$   $(A, \Delta, p_{11})$   $(B, 0, p_{12})$   $(A, 0, p_{13})$   $(B, 2\Delta, p_{14})$

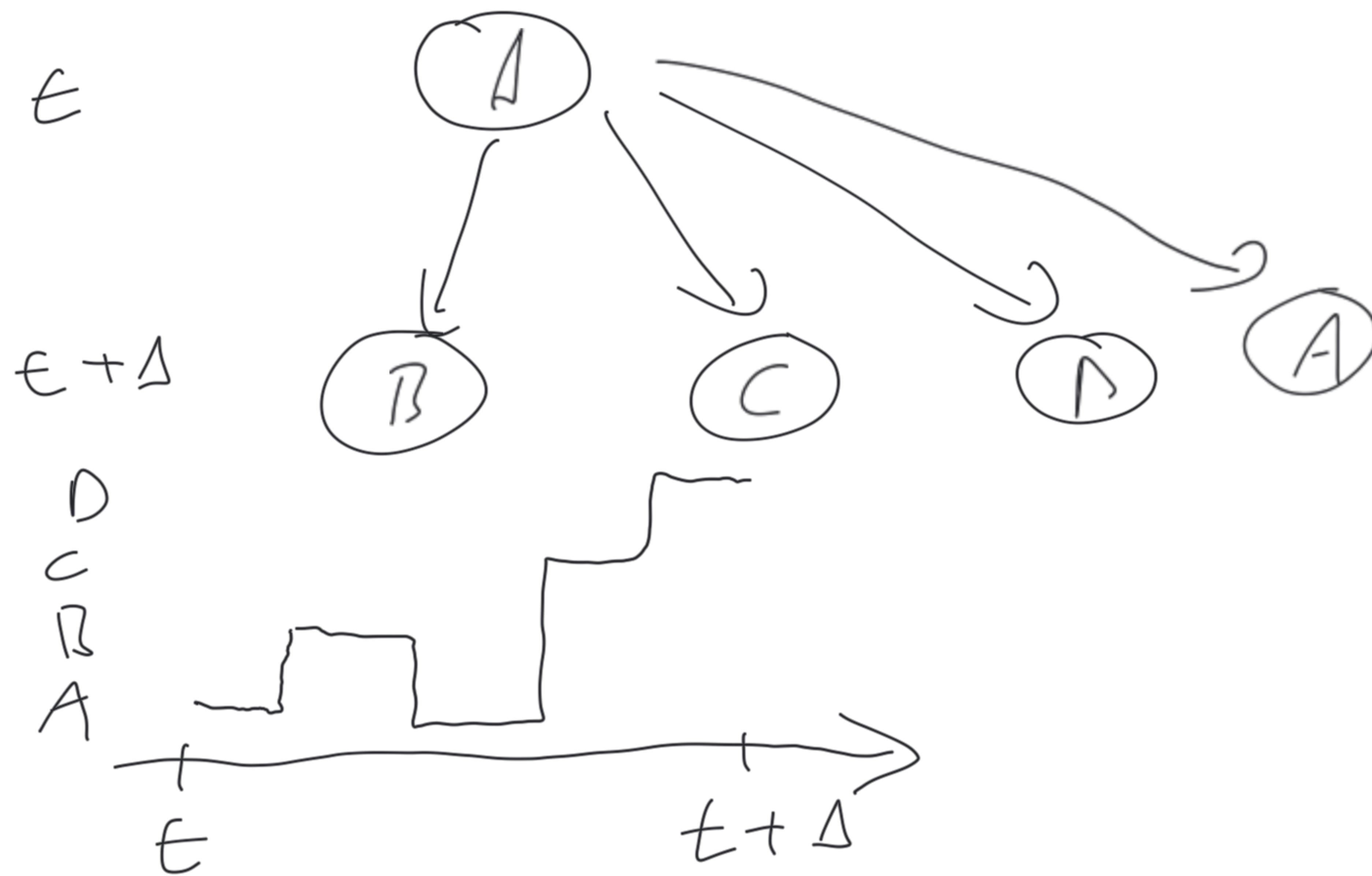
$(A, 4\Delta)$

$(A, 10\Delta, *)$

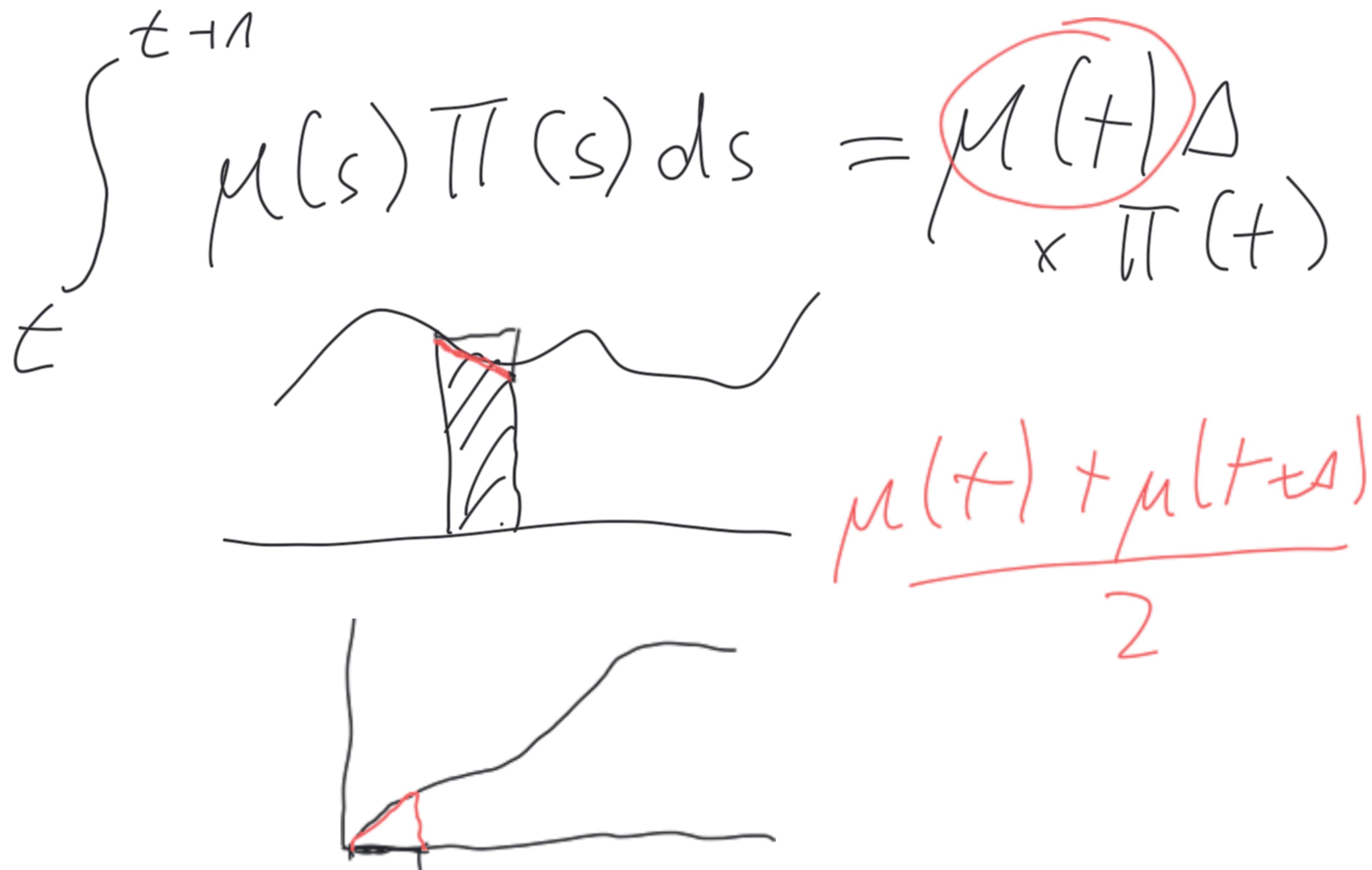
$(B, 0, p_8 + p_{12})$

$p_9 + p_{13}$

# ① Basic assupt.



## ② ODE integration



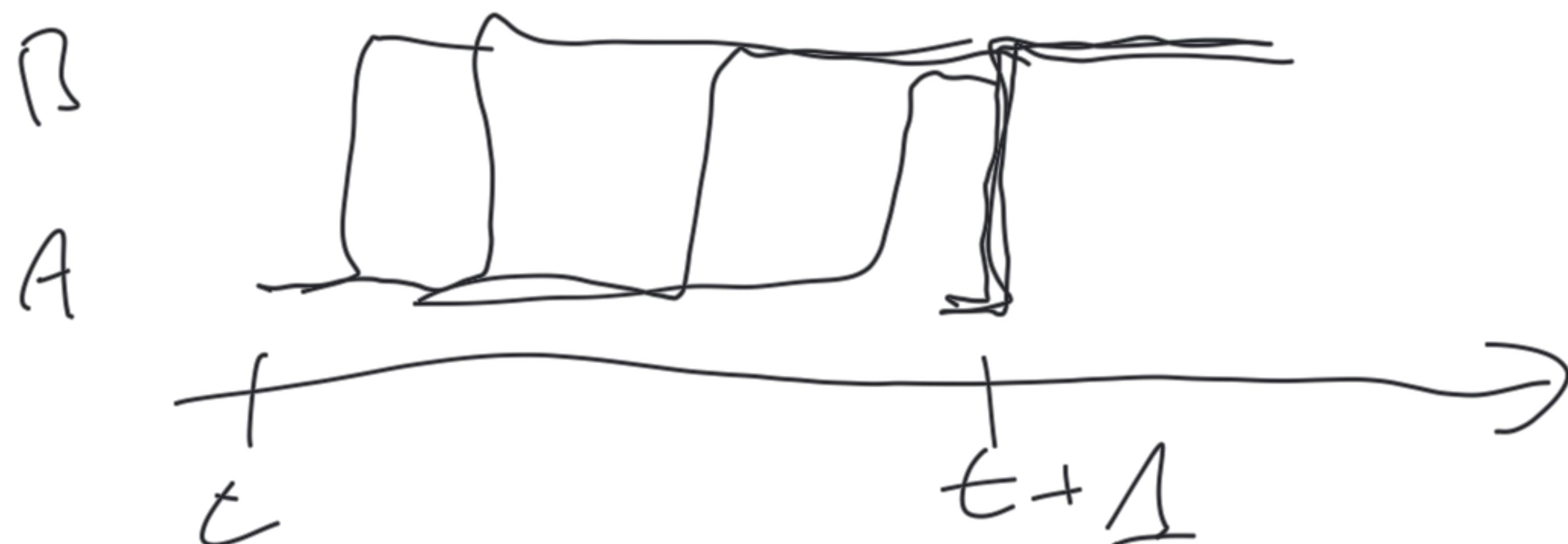
③ man-det. beh.

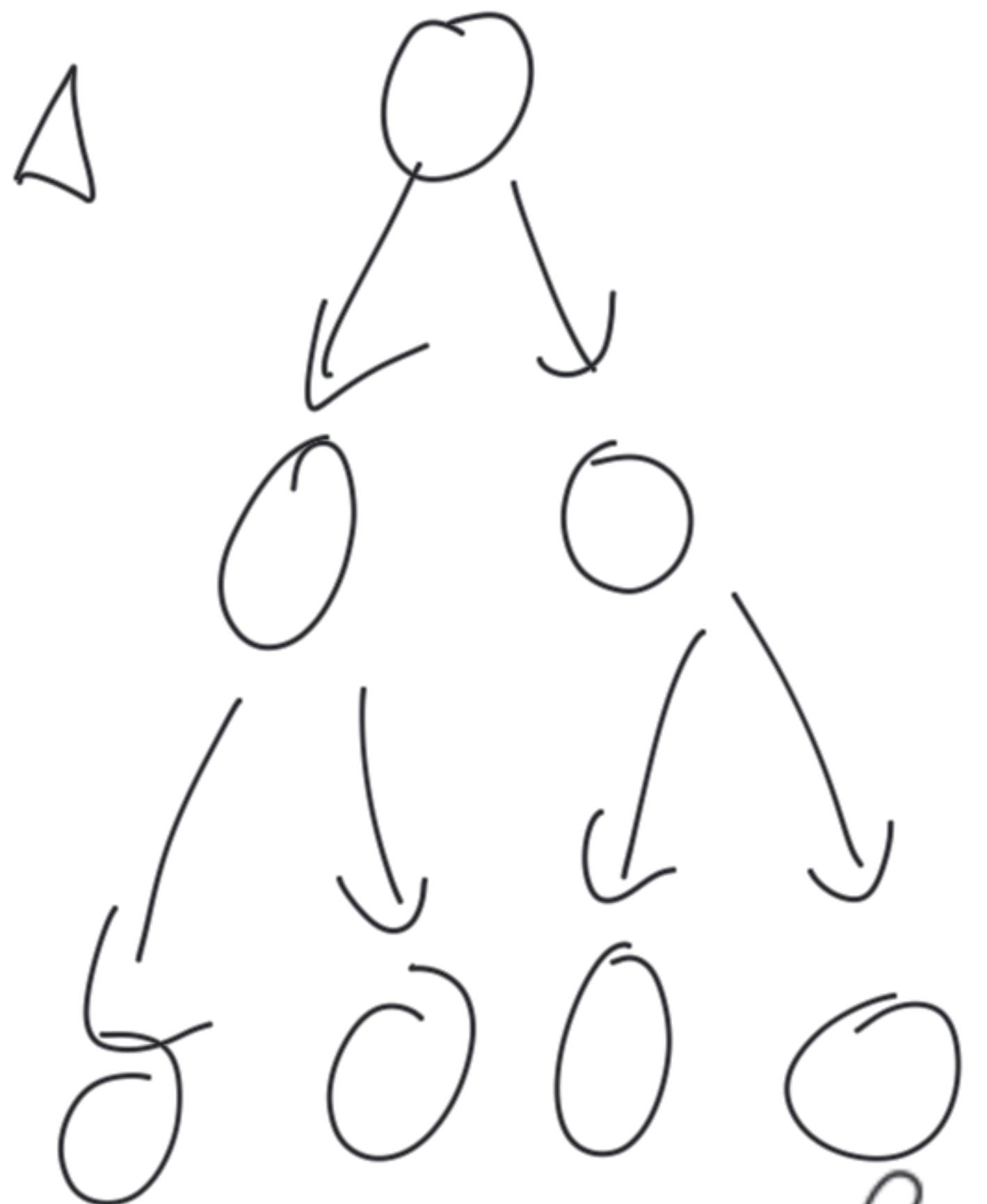
$t$

$A, 0, 1$

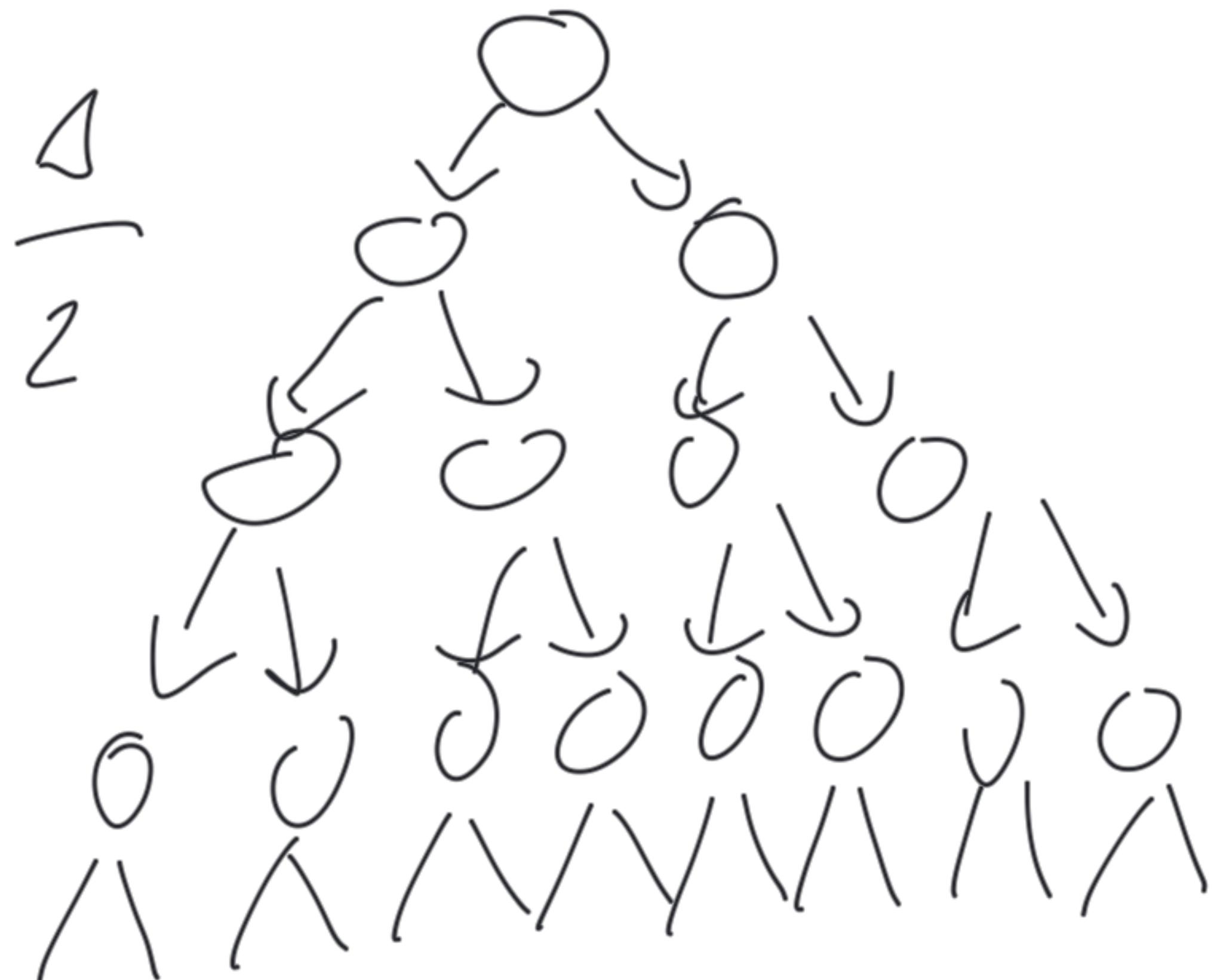
$t + \Delta$

$(B, 0, *)$





- more Proxels
- more Storage
- more comp time



- less memory

Result

$$29.1 \xrightarrow{29.8} 30$$

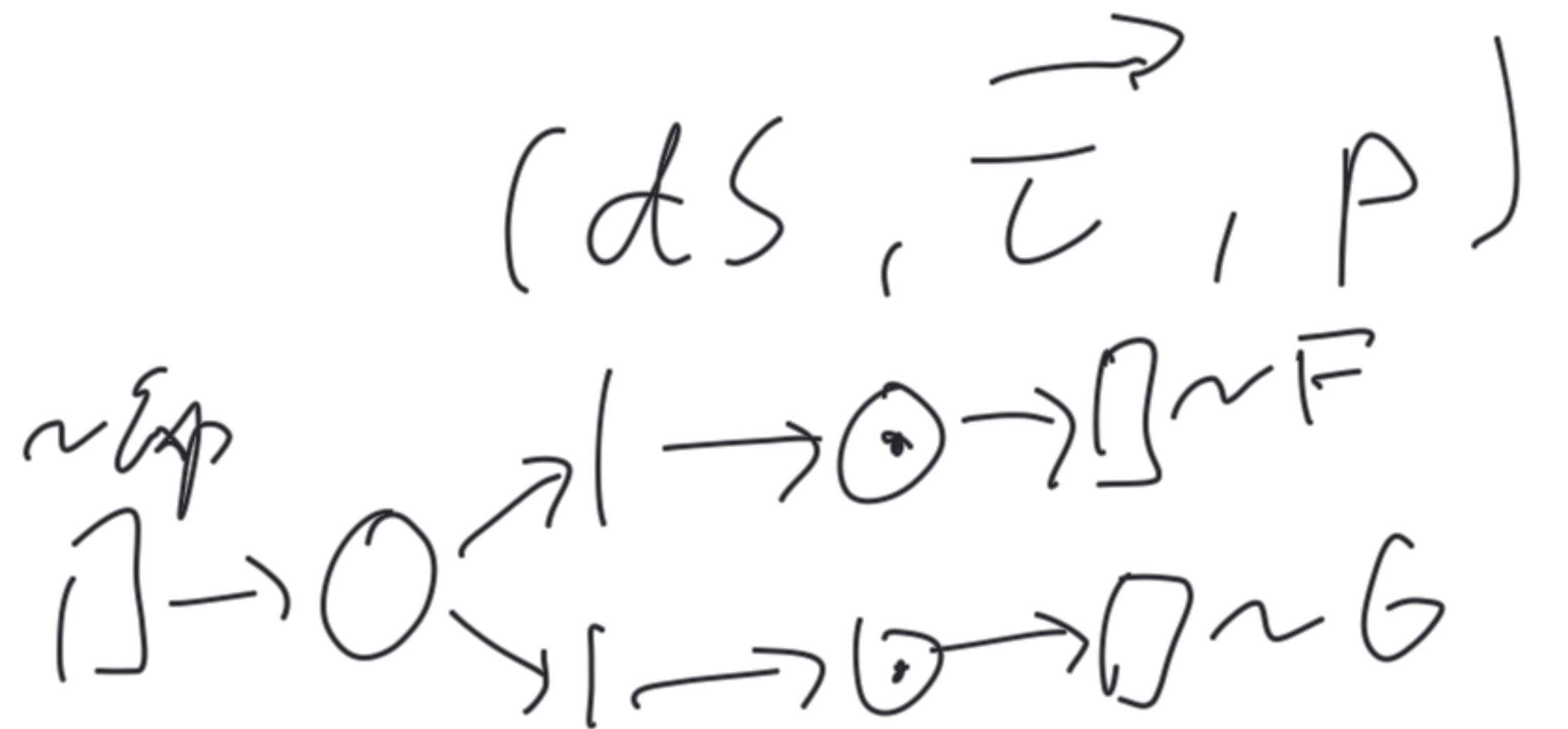
$$\frac{\Delta}{4}$$

$$\frac{\Delta}{2}$$

$$\Delta$$

time step

$$\Delta < \frac{1}{2} E(x)$$



- modelled

- non-Markovian

- race agl

- race agl policy

- race ends C

$dS$   
 $\hookrightarrow$  Cache Lifetime -  $t_L$

$\hookrightarrow \Delta$

$$\frac{t_L}{\Delta} \times |\vec{r}|$$

$(A, \tau, \dots)$

$A_0, A_1, A_2$

list

bin-tree

insert

$O(1)$

$O(n)$

$O(\log n)$

remove

$O(1)$

$O(\log n)$

$O(n)$

$O(\log n)$

find

