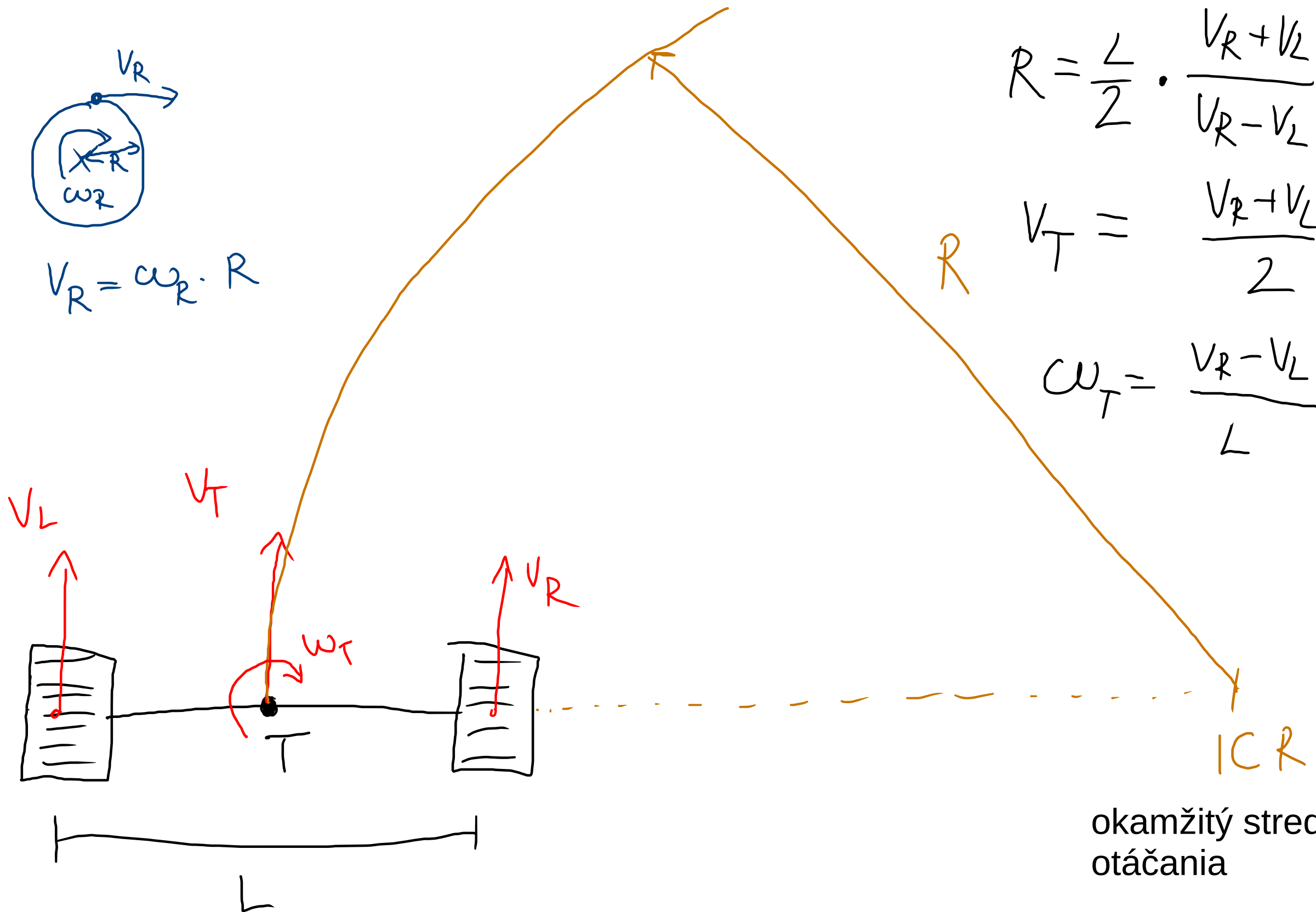


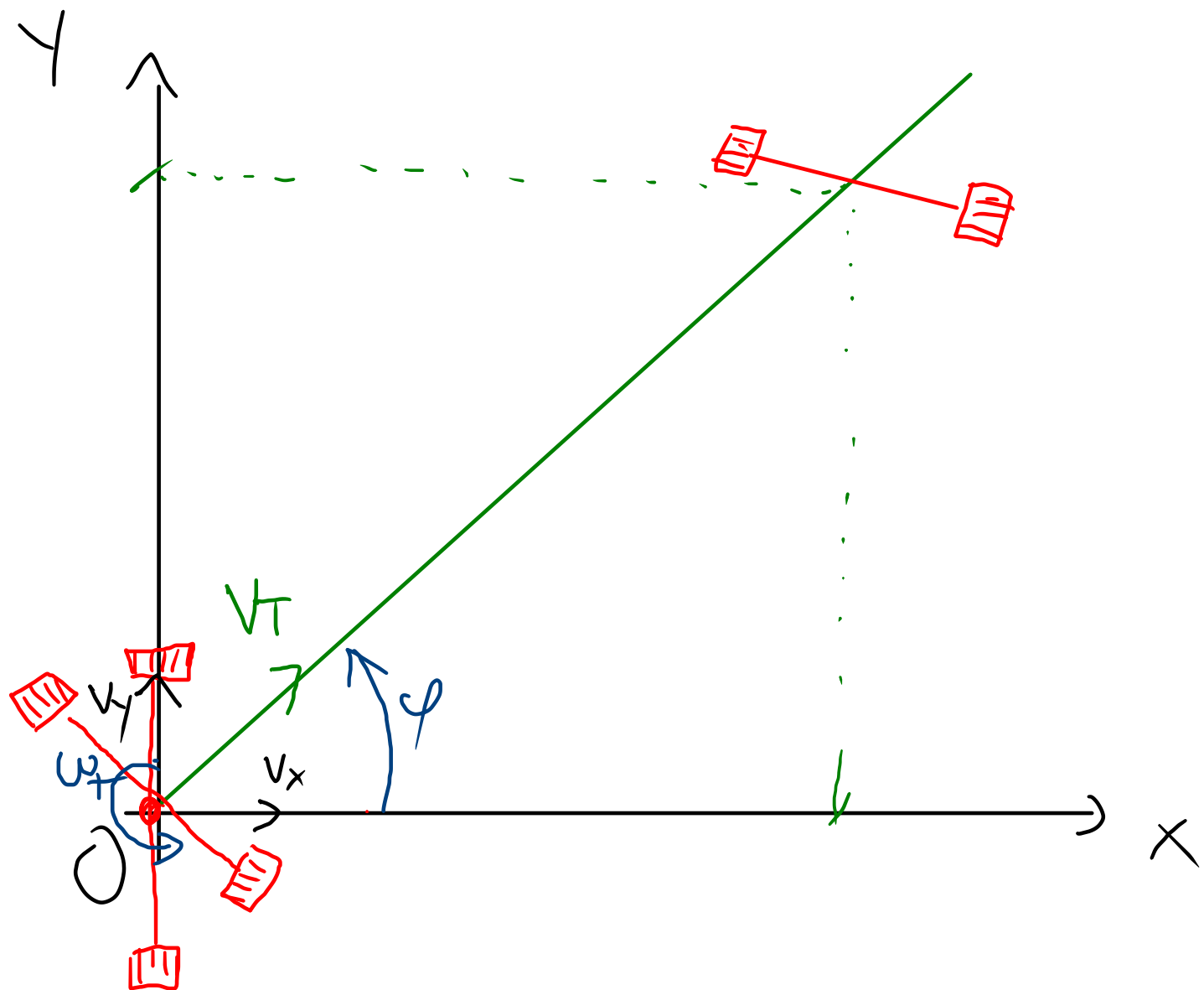
$$V_R = \omega_R \cdot R$$

$$R = \frac{L}{2} \cdot \frac{V_R + V_L}{V_R - V_L}$$

$$V_T = \frac{V_R + V_L}{2}$$

$$\omega_T = \frac{V_R - V_L}{L}$$





$$V_x = V_T \cos \varphi$$

$$V_y = V_T \sin \varphi$$

$$\Delta x_T = V_x \cdot \Delta t$$

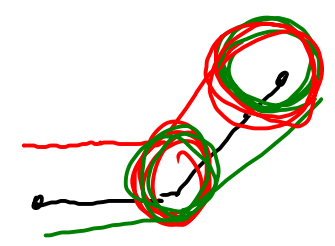
$$\Delta y_T = V_y \cdot \Delta t$$

$$\begin{bmatrix} x_T \\ y_T \end{bmatrix} = \begin{bmatrix} x_T + \Delta x_T \\ y_T + \Delta y_T \end{bmatrix} \quad \left. \vphantom{\begin{bmatrix} x_T \\ y_T \end{bmatrix}} \right\} \text{poloha}$$

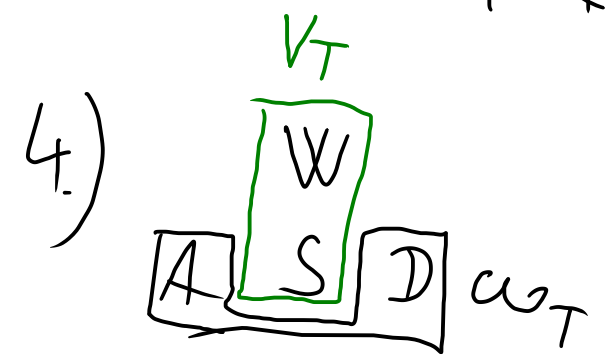
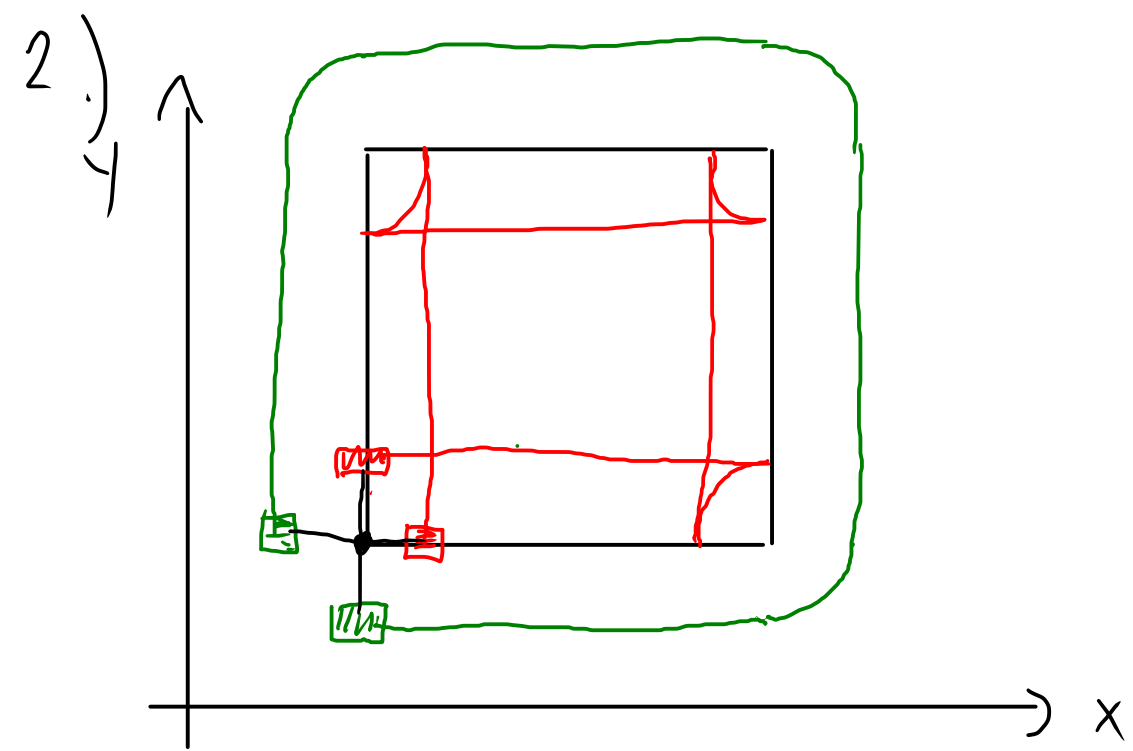
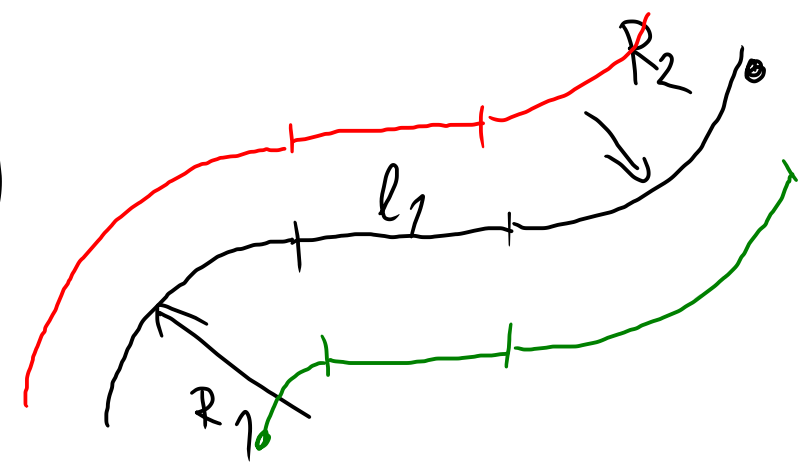
$$\Delta \varphi = \omega_T \cdot \Delta t$$

$$\varphi = \varphi + \Delta \varphi \rightarrow \text{orientácia}$$

1.)  $t = [0 \quad 5 \quad 10 \quad 15 \quad 20]$   
 $V_2 = [0 \quad 2 \quad -1 \quad 1 \quad 2]$   
 $V_R = [0 \quad 2 \quad 1 \quad 1 \quad -2]$



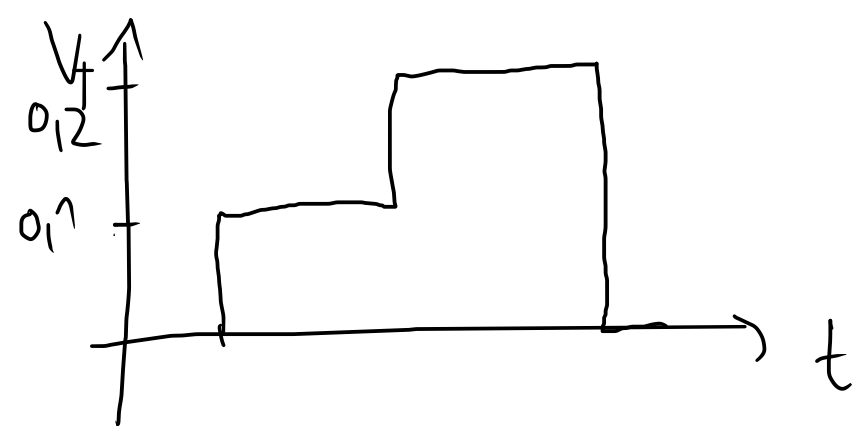
3.)



$[R] : \omega_T = 0$   
 $[Q] : V_T = 0$   
 $[Space] : \omega_T = V_T = 0$

$W \rightarrow w \rightarrow$   
 $0,1 \text{ m/s} \rightarrow 0,2 \text{ m/s}$

$A \rightarrow A \rightarrow$   
 $-0,1 \text{ rad/s} \rightarrow 0,2 \text{ rad/s}$



* (S U			* t x t		
t	V_T	omega_T	x_T	y_T	phi
0	0	0	0	0	0
0,1	0,1	0	0,01	0	0
0,2	0,1	0	0,02	0	0
0,3	0,1	0	...	0	0
...	...	...	...	...	...