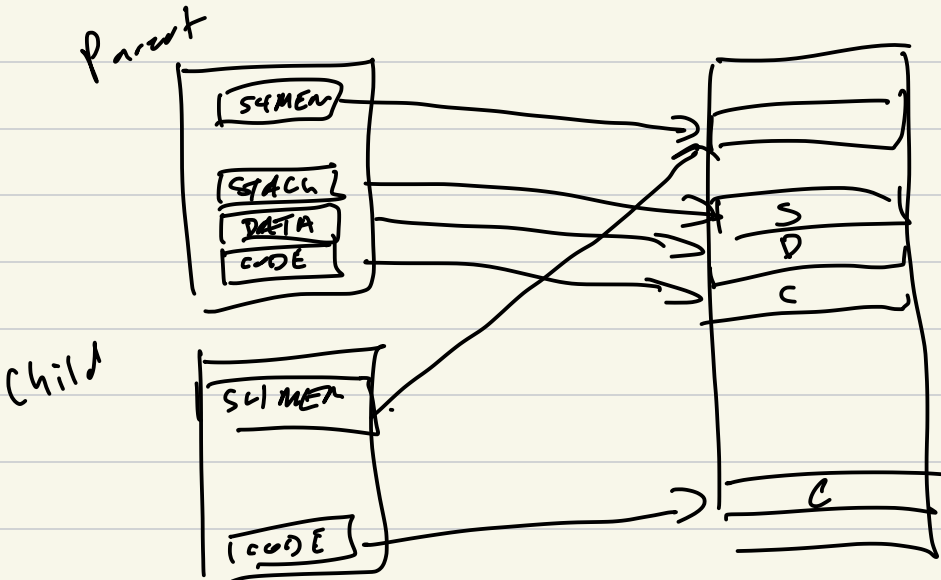
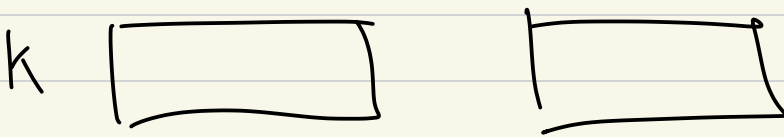
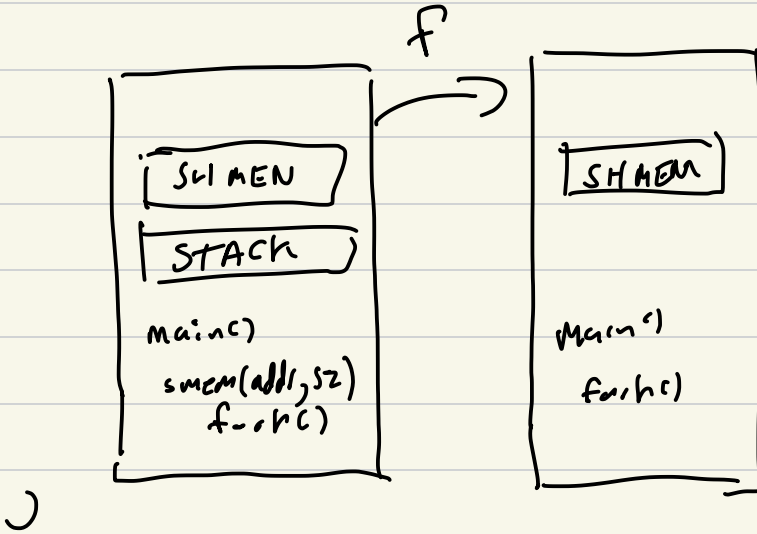
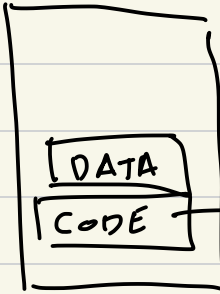


# CS631-01 x86 Page Tables

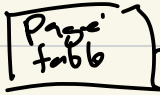


# Page Tables

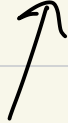
Process



VA



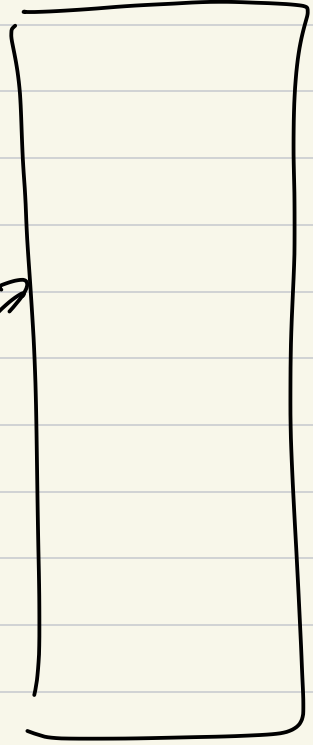
PA



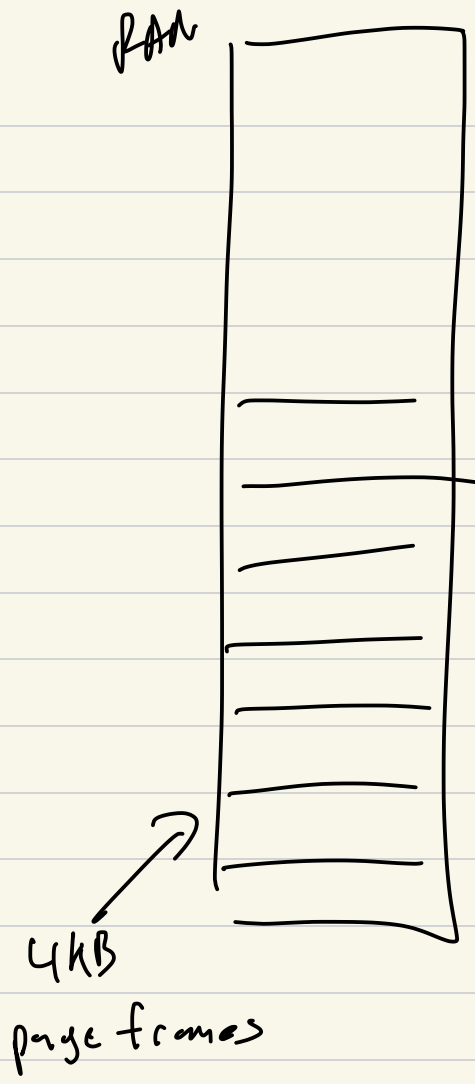
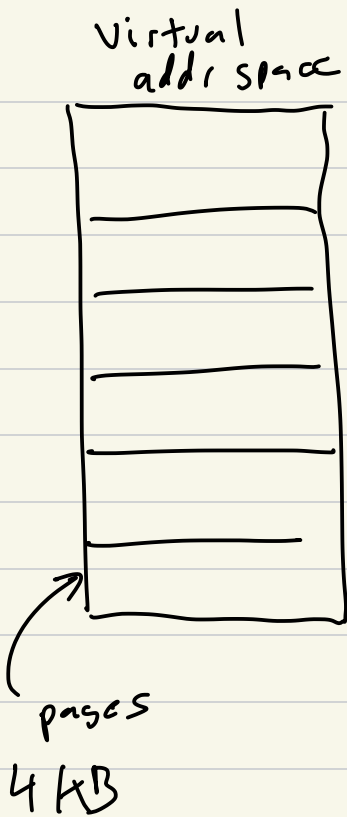
translation

Map

RAM

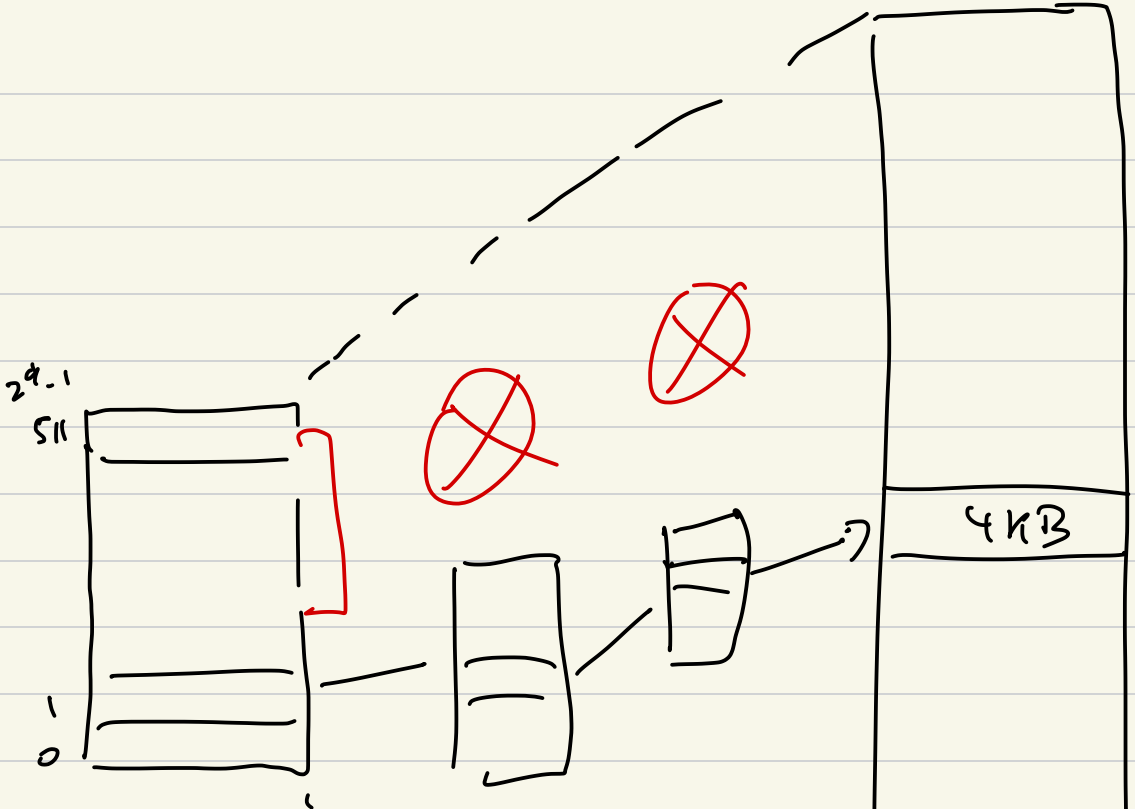


(VA, PA)



VA virtual address

$$2^{27} \times 2^3 = 2^{30}$$



~~$$44 + 12 = 56$$

$$\frac{2^{56}}{2^9} = 2^{47}$$

$$\frac{2^{47}}{2^9} = 2^{38}$$

$$\frac{2^{38}}{2^2} = 2^{29}$$~~

$$2^9 \cdot 2^{12} = 2^{21}$$

$$2^9 \cdot 2^{21} = 2^{30}$$

$$2^9 \cdot 2^{30} = 2^{39}$$

$$2^{39} / 2^{12} = 2^{27}$$