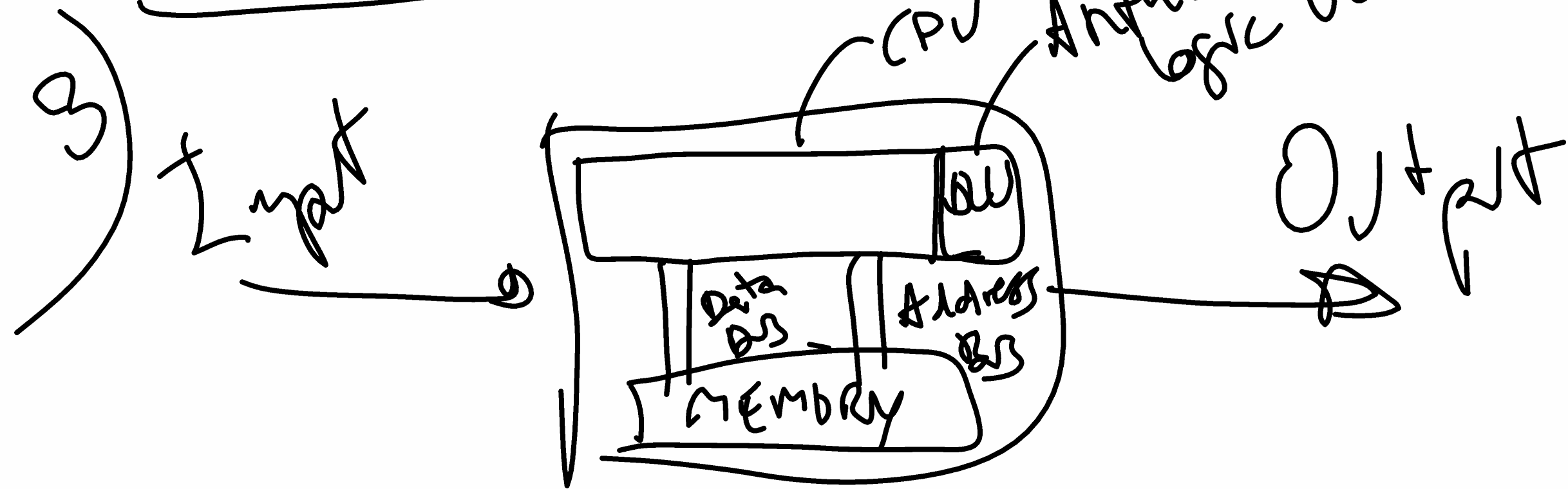
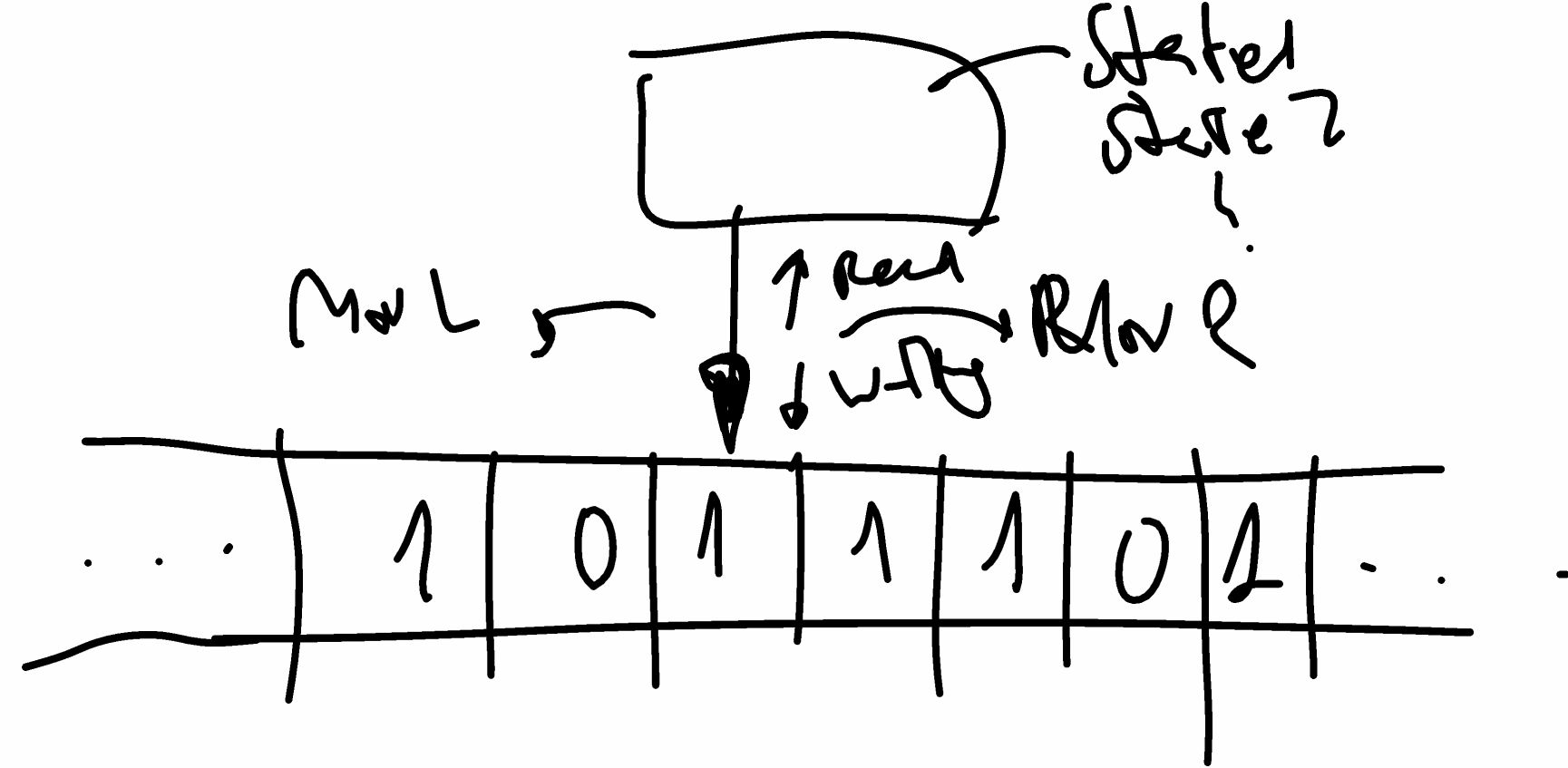


V. Neumann Architecture



5)



Problems Prny

2) 1101 1110 1110 1101

Hex

DEED

Decimal

$$D \cdot 16^3 + E \cdot 16^2 + E \cdot 16^1 + D \cdot 16^0 = 57069$$

0100 1110 1010
4 E A

4EA

$$4 \cdot 16^2 + E \cdot 16^1 + A \cdot 16^0 = 1024 + 224 + 10 = 1258$$

?

65537

$$65537 = \text{Hex?}$$

Sol: 1) Short way I know $FFFF = 65535$

$$\begin{array}{r} + \quad 2 \\ \hline 10001 = 65537 \end{array}$$

2) Long way

$$16^2 = 256$$

$$16^3 = 4096$$

$$16^4 = 65536$$

$$\frac{65537}{16^4} = 1.0001$$

$$65537 = 1 \cdot 16^4 + 1 = 1.0001$$

$$= [1]16^4 + [0]16^3 + [0]16^2 + [0]16^1 + [1]16^0$$

$$\begin{array}{r} 379 \\ 2 \\ \hline 1 \end{array}$$

Values	Char	Values	Char
0	0	11	B
1	1	12	C
2	2	13	D
3	3	14	E
4	4	15	F
5	5		
6	6		
7	7		
8	8		
9	9		
A	A		

456

565758