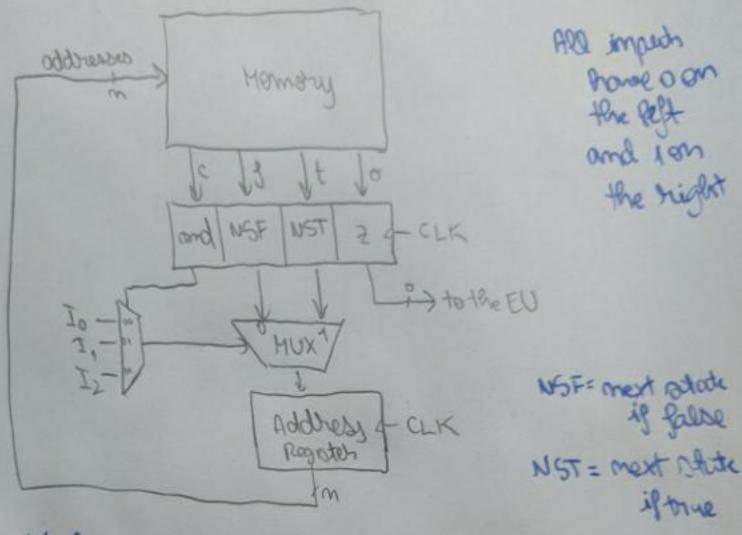
5. We amount

pair addresses, because the outputs only depend on the current state, so this is a Moste machine



We have: 3 imputs so condition is on 2 bits, C=23 states so we encode them on 3 bits

=) $m = J = t = J_3$ 3 outputs put arcade =) 3 bits, $\theta = 3$

b) The mecessory momory capacity is $2^m (c+f+t+e) = \frac{1}{2^3(3+3+2+3)} = \frac{1}{2^3+1}$ a) We continue the implementation $2^3(3+3+2+3) = 2^3 \cdot 11$ $\frac{cond}{00} = \frac{1}{10}$ States encoding: Standby: 0000 000

01 II 10 II 10 II 11 X Wait: 100

Heme						
castleba		cond	NSFalse	NSTrue = 1223		
pubmoles	000	00	000	004	110	
Rum	100	104	040	1.00	011	
Suspend	040	XX	014	011	400	
Resume	044	10	100	100	000	
Wait	100	40	400	000	110	
	101	××	***	×××	XXX	
	111	XX	XXX	$\times \times \times$	XXX	

c) Standay A, Run: B, Sup. C, Res. D, wat: E

Sold	101	1					
A	A 1110	8/110	Each state only has 1 imput,				
8	(011	81011	Do we consider that				
c	01100	D1100	One on the columns				
0	8)000	E 000	for simpler				
E	E1110	AMO	representation				

d) The only possible compatible equivalent states are A and E because they have the same output, that would mean A hasto be equivalent with E and A with B, which isn't possible So the outernation's our of states com't be troduced;