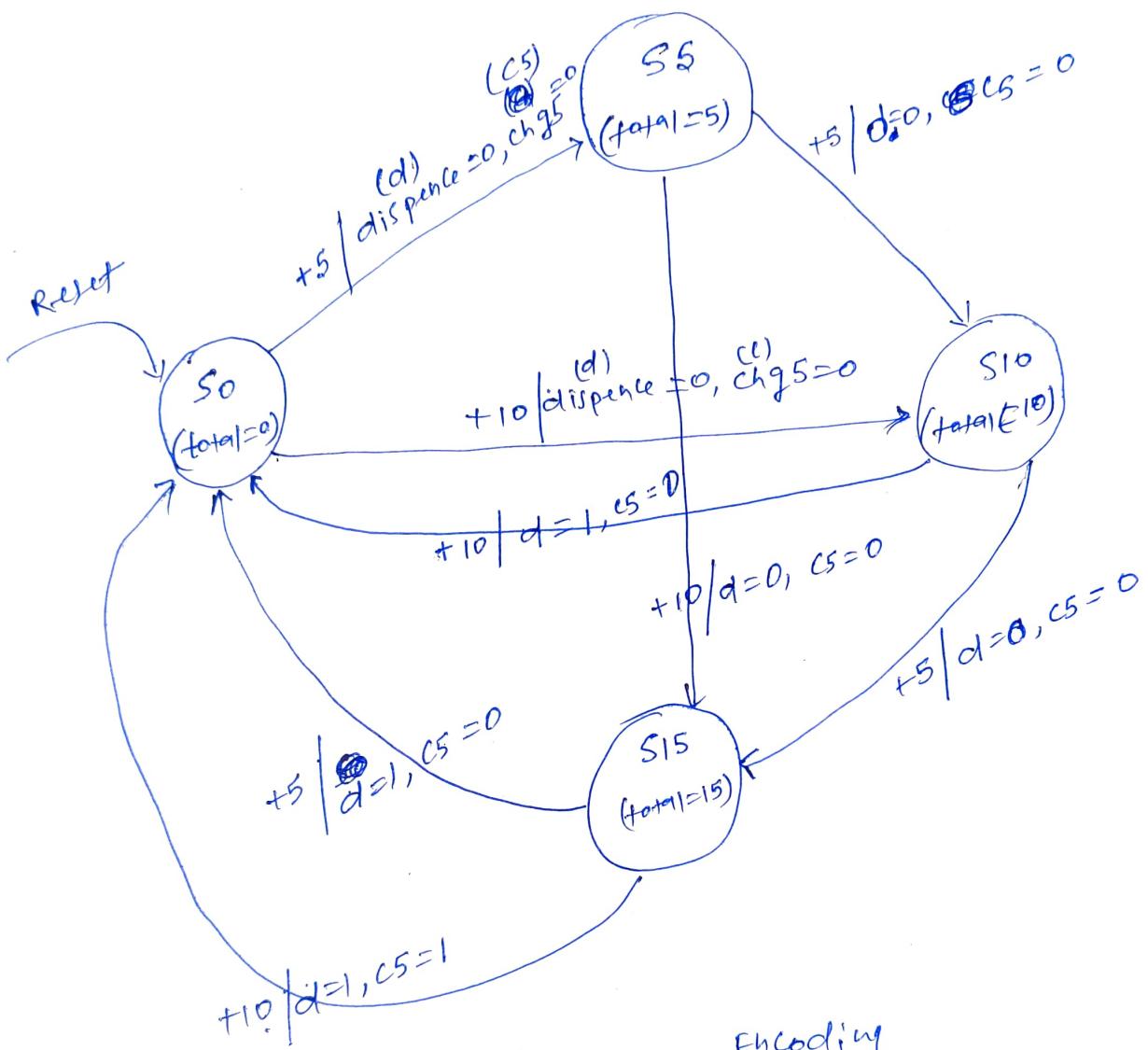


problem 3 @ vending

mealy fsm state transition diagram



State

S_0

Encoding

00

S_5

01

S_{10}

10

S_{15}

11

FSM Output Table

Current-State	Input (coin)	Next-state	Output (d, C5) (dispense, change)
S ₀	5	S ₅	
S ₀	10	S ₁₀	0, 0
S ₅	5	S ₁₀	0, 0
S ₅	10	S ₁₅	0, 0
S ₁₀	5	S ₁₅	0, 0
S ₁₀	10	S ₀	1, 0
S ₁₅	5	S ₀	1, 0
S ₁₅	10	S ₀	1, 1