EECS 317-417

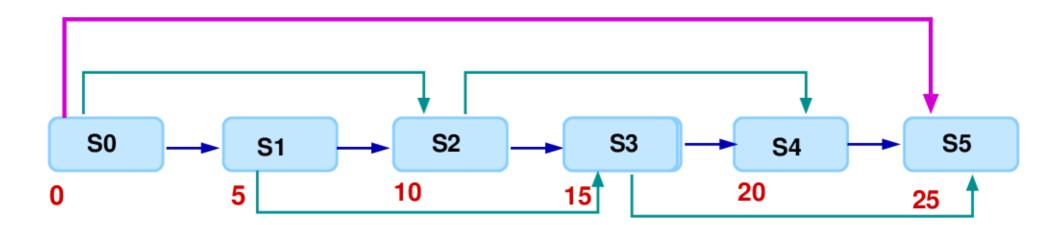
Chris Papachristou

Case Western Reserve University

Cleveland, Ohio 44106

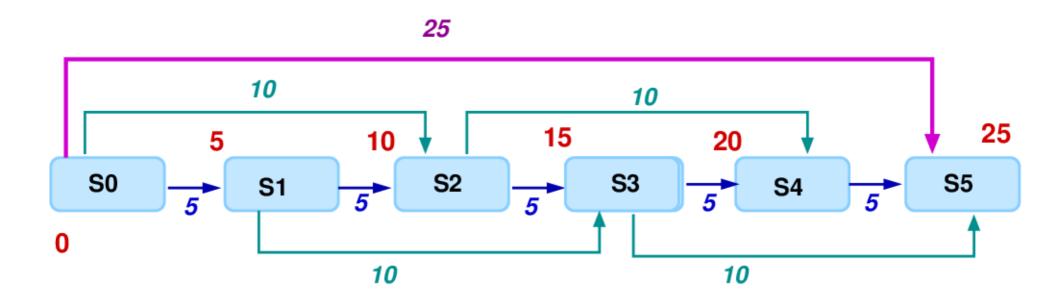
Coke machine state diagrams

Generating states based on coin values

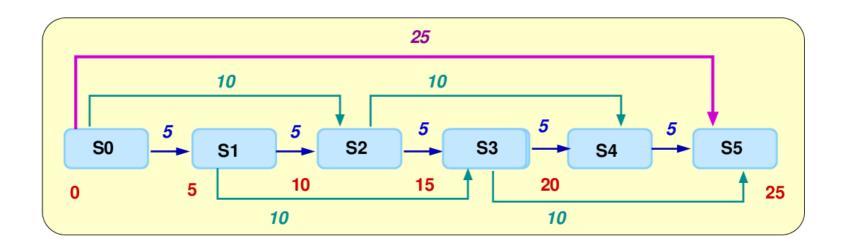


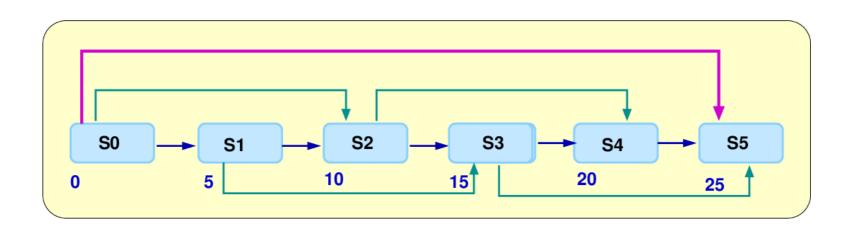
State diagrams

• Complete state diagram for 1/3 of the coke machine

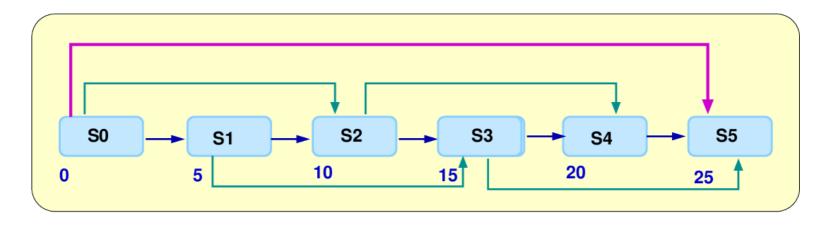


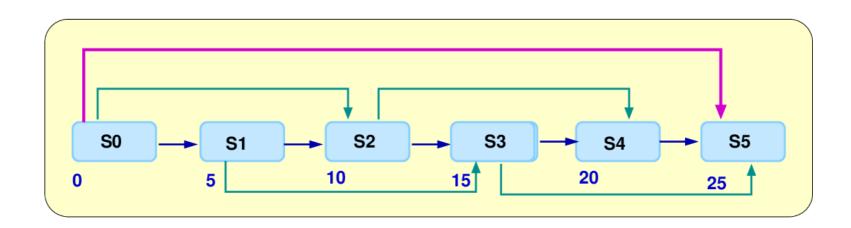
State diagram reuse – 2/3 of the coke machine



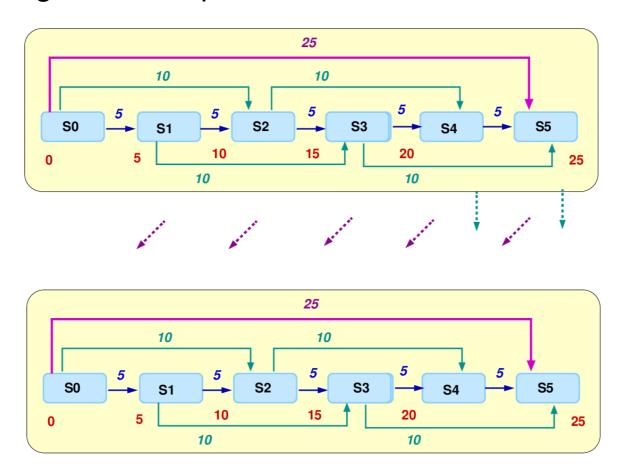


Reusing state components

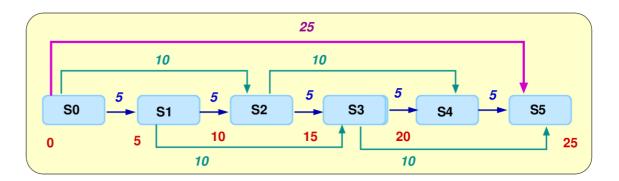


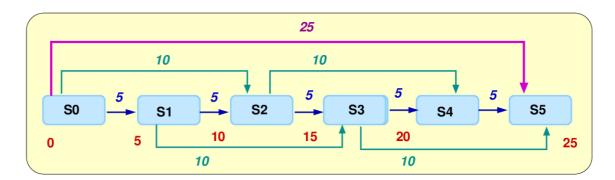


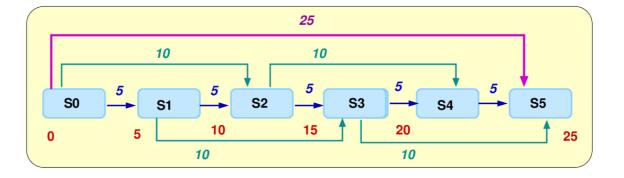
Reusing state components – transitions



Complete coke
state machine –
three state
components

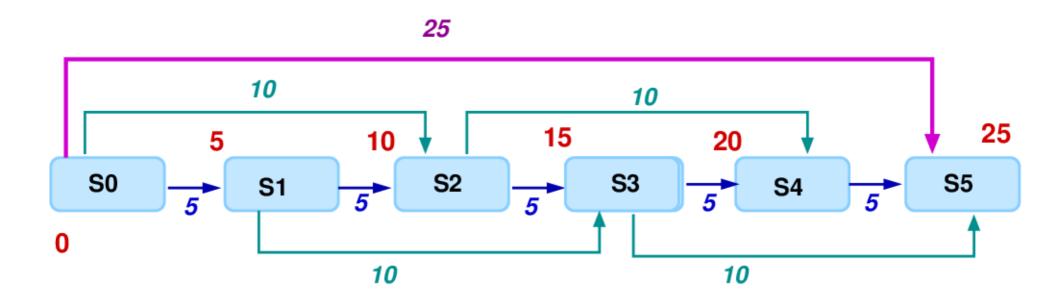






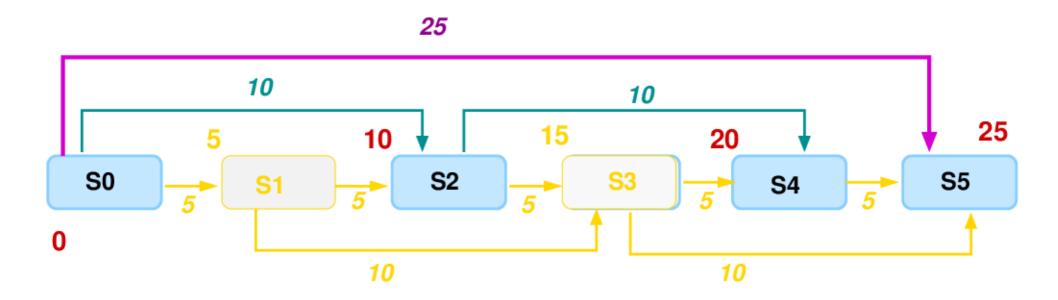
State diagrams

• Complete state diagram for 1/3 of the coke machine



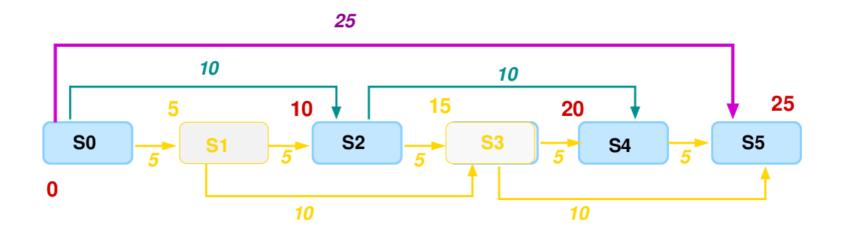
Coke state machine – reduced

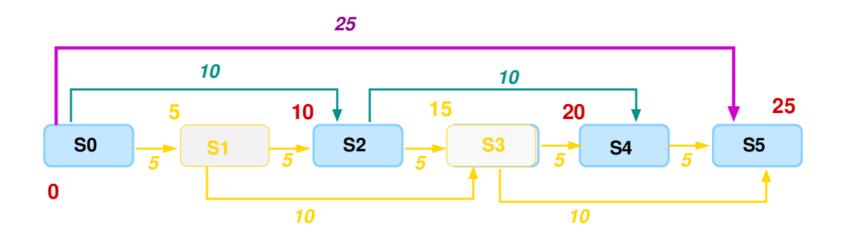
Only dimes and quarters accepted



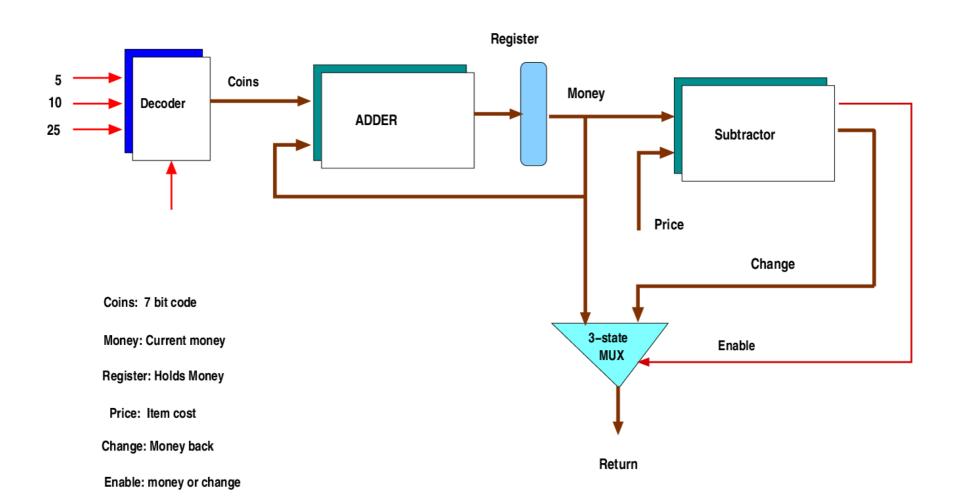
Coke state machine - reduced

Expansion





Add/Subtract/MUX approach



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