

State Reduction

Find the minimum number of states for the following finite state machine (FSM).

Current State	Next State, Input x y / Output z			
	<u>0 0</u>	<u>0 1</u>	<u>1 1</u>	<u>1 0</u>
A	B / 0	C / 0	B / 1	A / 0
B	E / 0	C / 0	B / 1	D / 1
C	A / 0	B / 0	C / 1	D / 1
D	C / 0	D / 0	A / 1	B / 0
E	C / 0	C / 0	C / 1	E / 0