



















Exa	ample	: A par	ity c	hecker			
1. St	ate-trar Moor	e e	ole				
Present State	Input	Next State	Prese Outpu	ent ut			
Even Even Odd	0 1 0	Even Odd Odd	0 0 1		Mealy		
Odd	1	Even	1	Present State	Input	Next State	Present Output
			-	Even Even Odd Odd	0 1 0 1	Even Odd Odd Even	0 1 1 0
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Example: A parity checker								
4. State encoding Moore					Assignr Eve Odd	Assignment Even 0 Odd 1		
Present State	Input	Next State	Present Output					
0 0 1 1	0 1 0 1	0 1 1 0	0 0 1 1	Mealy				
			Present State	Input	Next State	Present Output		
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A vending machine: State encoding Moore Mealy								
present state <u>Q1 Q0</u> 0 0	inputs <u>D N</u> 0 0 0 1 1 0	next state <u>D1 D0</u> 0 0 0 1 1 0	present output 0 0 0	present state Q1 Q0 0 0	inputs <u>D N</u> 0 0 0 1 1 0	next state D1 D0 0 0 0 1 1 0	present output 0 0 0	
0 1	$ \begin{array}{cccc} 1 & 1 \\ 0 & 0 \\ 0 & 1 \\ 1 & 0 \\ 1 & 1 \end{array} $	 0 1 1 0 1 1 	0 0 0	0 1	$ \begin{array}{cccc} 1 & 1 \\ 0 & 0 \\ 0 & 1 \\ 1 & 0 \\ 1 & 1 \end{array} $	 0 1 1 0 1 1 	0 0 1	
1 0	$ \begin{array}{cccc} 1 & 0 \\ 0 & 1 \\ 1 & 0 \\ 1 & 1 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 -	1 0	0 0 0 1 1 0 1 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1 1 -	
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