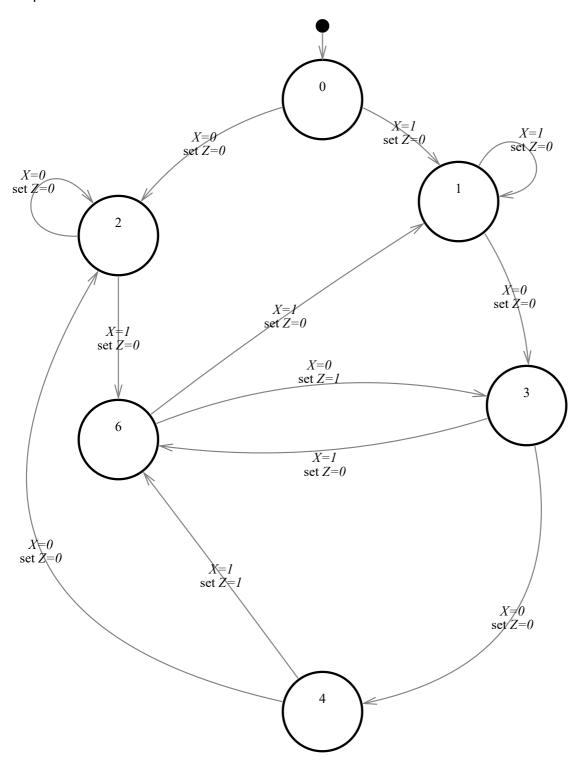
FSM finding overlapping-sequence 010 or 1001

Mealy

Graph



Truth table and state and output equations

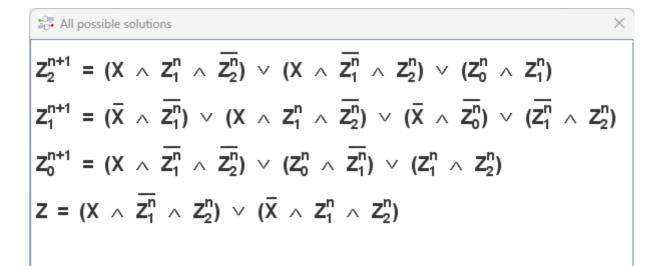
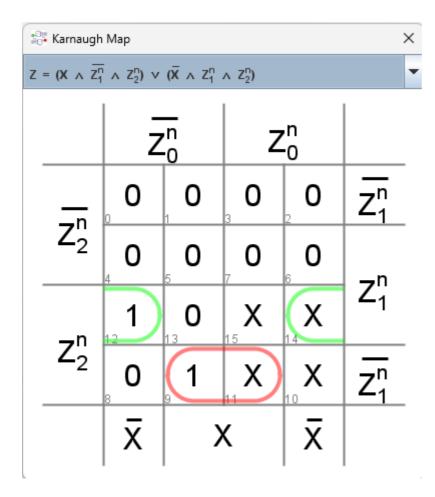


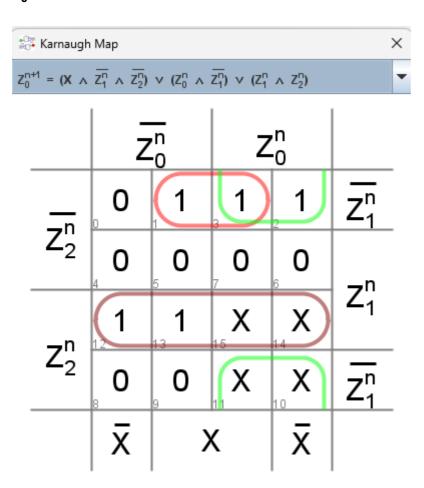
Table X										
File New	Edit Create	K-Map								
Z2n	Z1n	Z0n	Х	Z2n+1	Z1n+1	Z0n+1	Z			
0	0	0	0	0	1	0	0			
0	0	0	1	0	0	1	0			
0	0	1	0	0	1	1	0			
0	0	1	1	0	0	1	0			
0	1	0	0	0	1	0	0			
0	1	0	1	1	1	0	0			
0	1	1	0	1	0	0	0			
0	1	1	1	1	1	0	0			
1	0	0	0	0	1	0	0			
1	0	0	1	1	1	0	1			
1	0	1	0	Х	Х	Х	Х			
1	0	1	1	Х	Х	Х	Х			
1	1	0	0	0	1	1	1			
1	1	0	1	0	0	1	0			
1	1	1	0	Х	Х	Х	Х			
1	1	1	1	Х	Х	Х	Х			

K-Maps

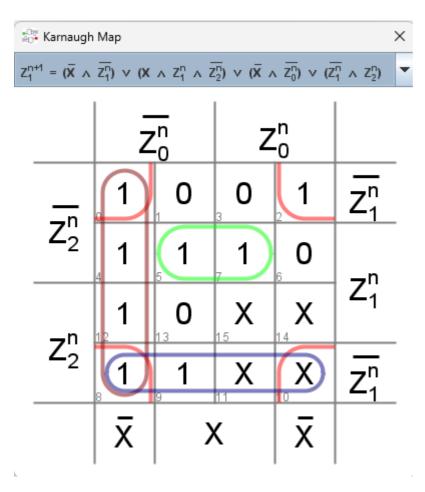
Output



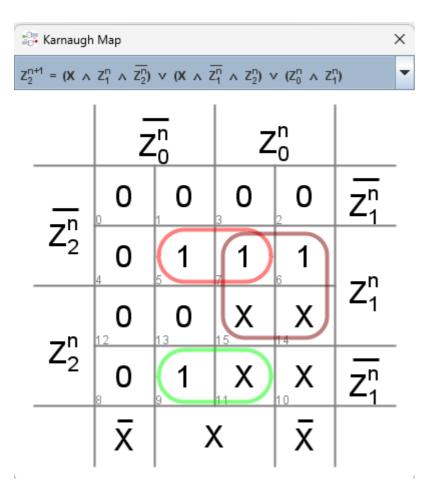
 Z_0^{n+1}



 Z_1^{n+1}

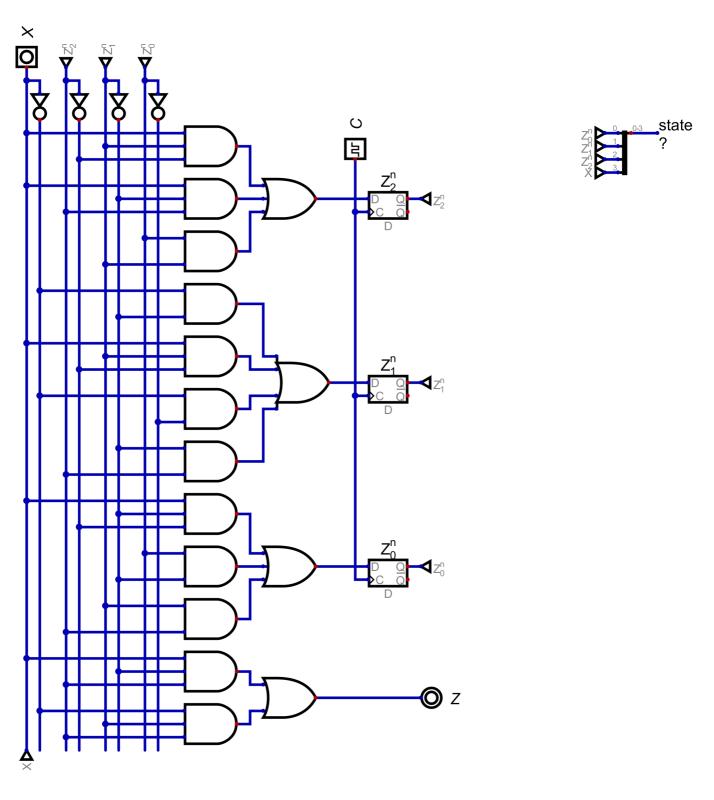


 Z_2^{n+1}

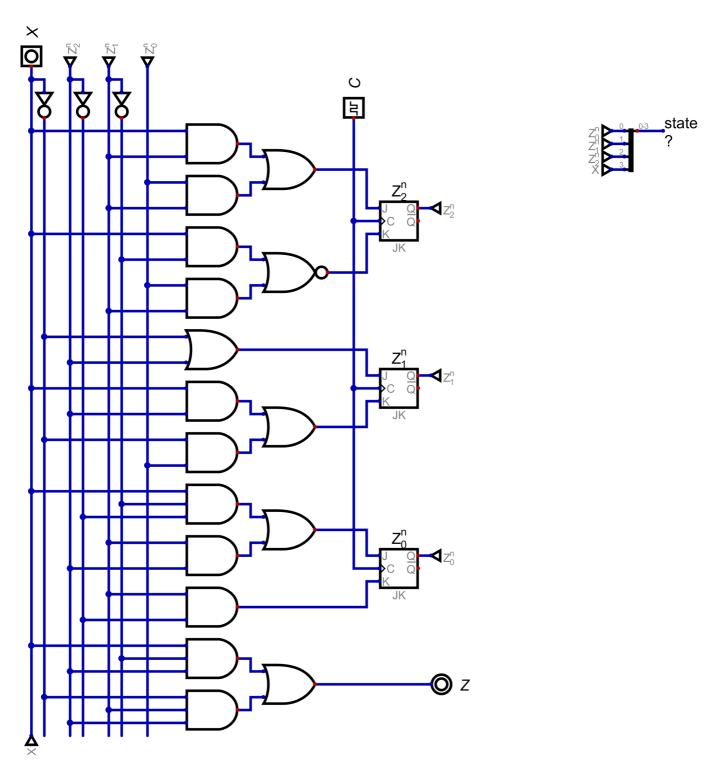


Circuits

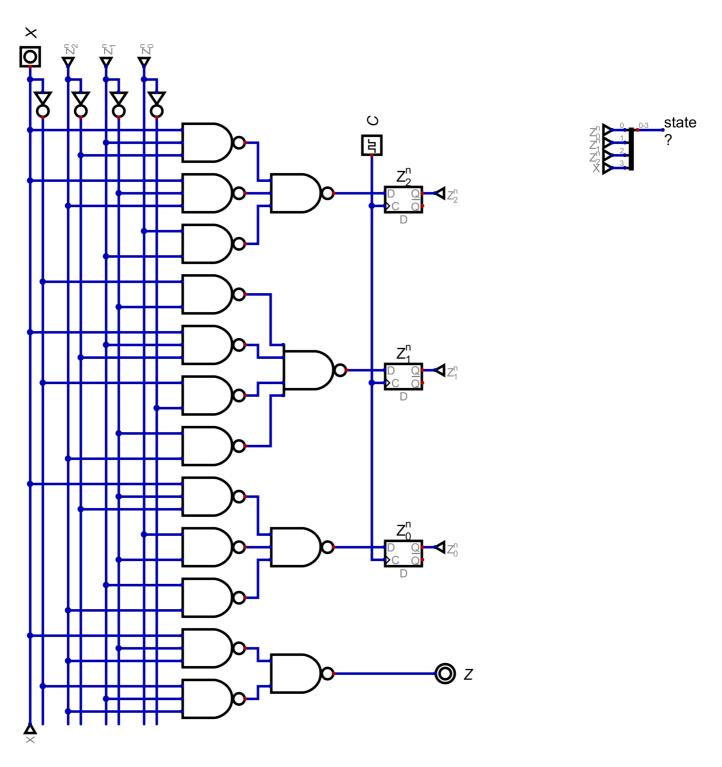
D FFs based



JK FFs based

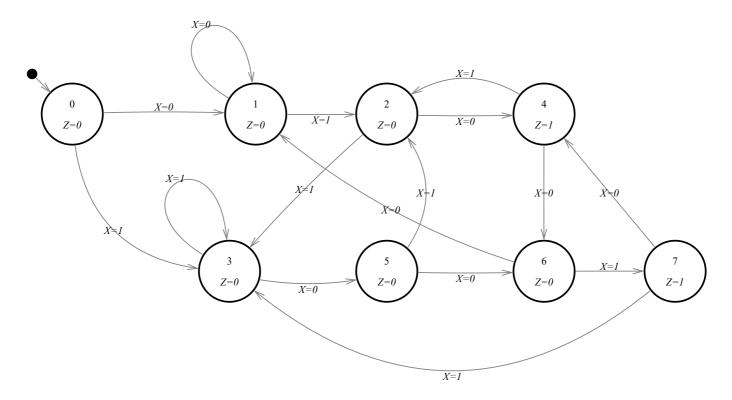


NAND based



Moore

Graph



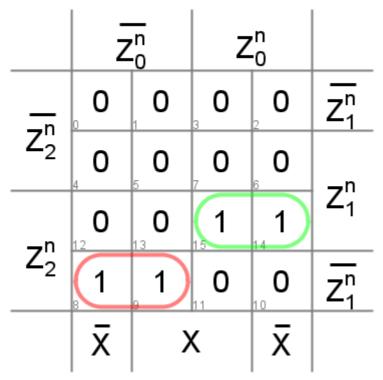
Truth table and state and output equations

ile New Edit Cre	eate K-Map						
Z2n	Z1n	Z0n	X	Z2n+1	Z1n+1	Z0n+1	Z
0	0	0	0	0	0	1	0
0	0	0	1	0	1	1	0
0	0	1	0	0	0	1	0
0	0	1	1	0	1	0	0
0	1	0	0	1	0	0	0
0	1	0	1	0	1	1	0
0	1	1	0	1	0	1	0
0	1	1	1	0	1	1	0
1	0	0	0	1	1	0	1
1	0	0	1	0	1	0	1
1	0	1	0	1	1	0	0
1	0	1	1	0	1	0	0
1	1	0	0	0	0	1	0
1	1	0	1	1	1	1	0
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1	1	1	1	0	1	1	1

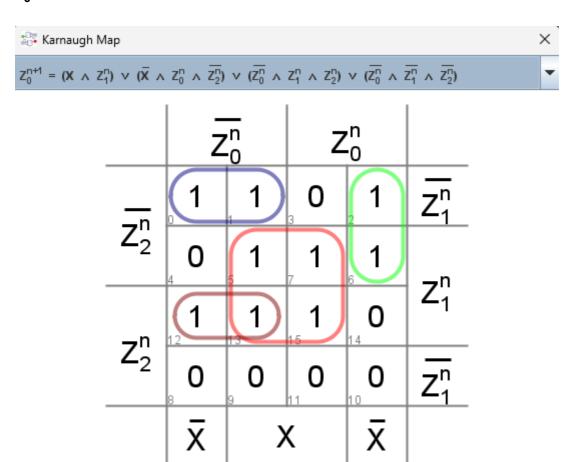
K-Maps

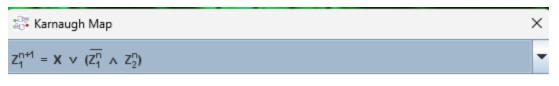
Output

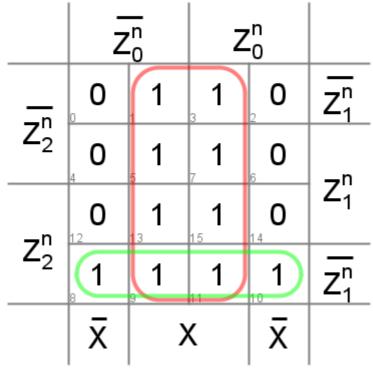




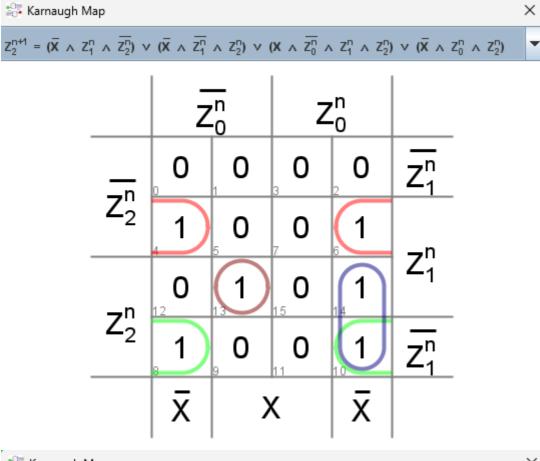
 Z_0^{n+1}



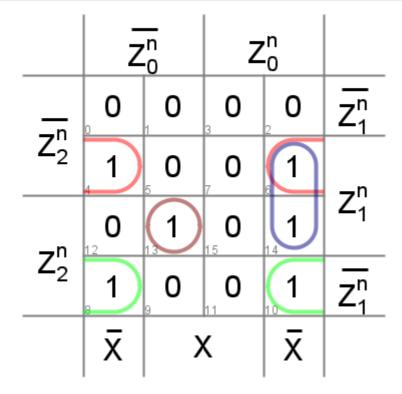




 Z_2^{n+1}

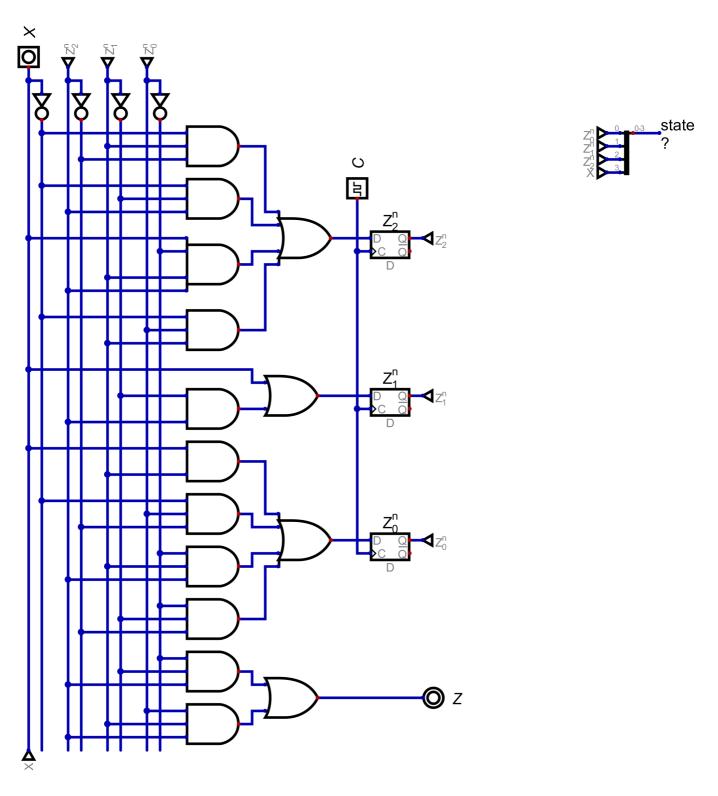


Karnaugh Map							
$Z_2^{n+1} = (\overline{\mathbf{X}} \wedge Z_1^n \wedge \overline{Z_2^n}) \vee (\overline{\mathbf{X}} \wedge \overline{Z_1^n} \wedge Z_2^n) \vee (\mathbf{X} \wedge \overline{Z_0^n} \wedge Z_1^n \wedge Z_2^n) \vee (\overline{\mathbf{X}} \wedge Z_0^n \wedge Z_1^n)$	-						

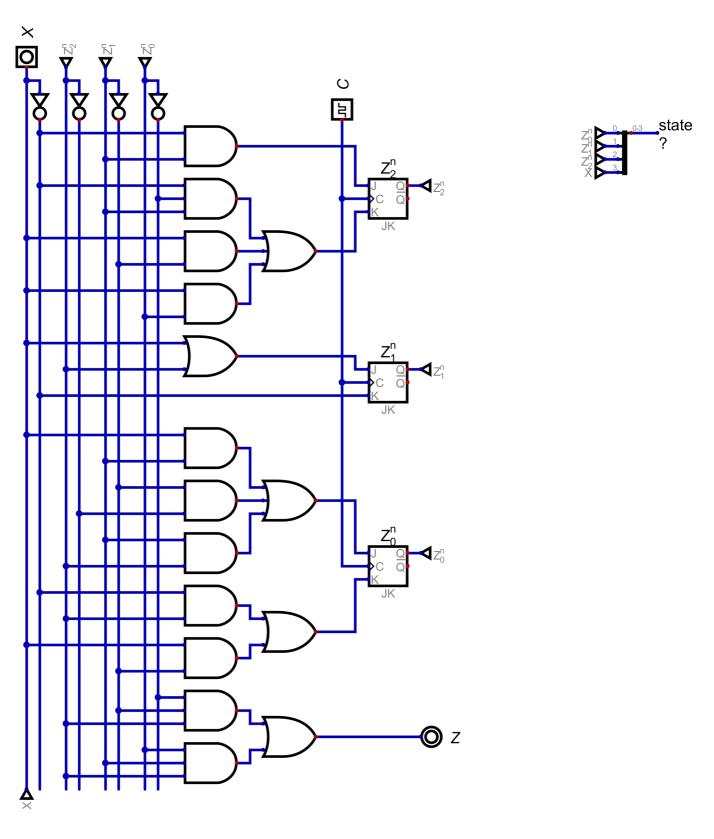


Circuits

D FFs based



JK FFs based



NAND based

