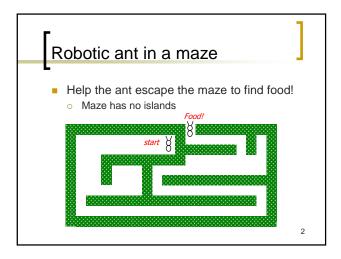
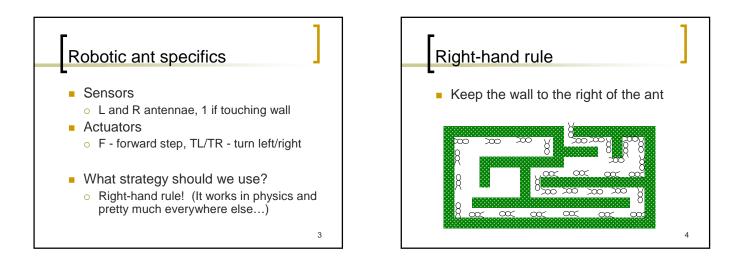
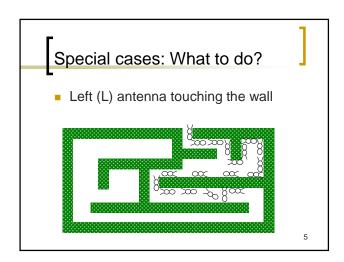
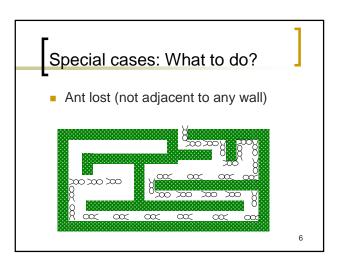
Lecture 19

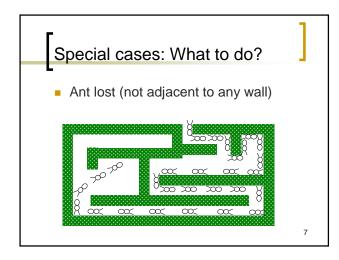
 A bigger FSM example: Hungry Robot Ant in Maze

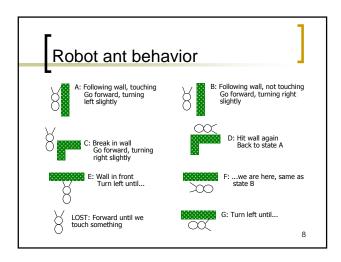


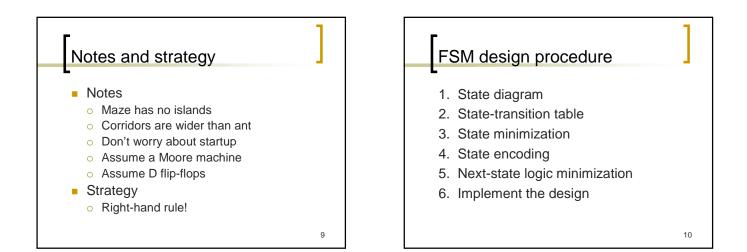


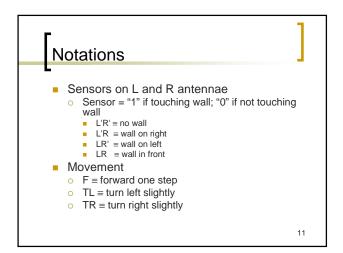


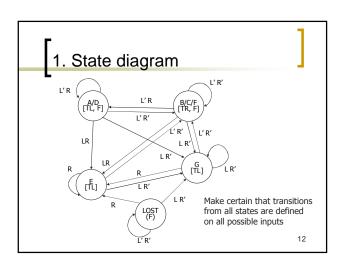


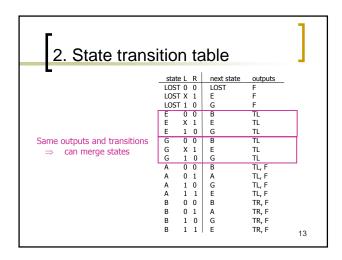


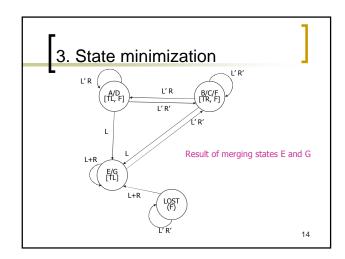












4. State encoding					
			state L R	next state	outputs
state L R	next state	outputs	<u>X Y</u>	X+ Y+	F TR TL
LOST 0 0	LOST	F	0000	0 0	1 0 0
LOST X 1	E	F	00 X 1	0 1	1 0 0
LOST 1 0	E	F	0010	0 1	1 0 0
E 0 0	В	TL	0100	1 1	0 0 1
E X 1	E	TL	0 1 X 1	0 1	0 0 1
E 10	E	TL	0 1 1 0	0 1	0 0 1
A 00	В	TL, F	1000	1 1	1 0 1
A 01	A	TL, F	1001	1 0	1 0 1
A 1 X	E	TL, F	101X	0 1	1 0 1
B 0 0	В	TR, F	1100	1 1	1 1 0
B 0 1	A	TR, F	1 1 0 1	1 0	1 1 0
B 1 X	E	TR, F	1 1 1 X	0 1	1 1 0
					15

