











Finite State Machine

• A system with the following components:

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- 1. A finite number of states
- 2. A finite number of external inputs
- 3. A finite number of external outputs
- 4. An explicit specification of all state transitions
- 5. An explicit specification of what determines each external output value
- Often described by a state diagram.
 - Inputs trigger state transitions.
 - Outputs are associated with each state (or with each transition).

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Looking Ahead: C Structures
Accessing structures
void func (Student student)
<pre>{ strcpy(student.firstName, "John"); student.letterGrade = 'A';</pre>
void func (Student *student)
<pre>strcpy(student->firstName, "John"); student->letterGrade = "A';</pre>
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Looking Ahead: Makefiles
• Miscellaneous targets
Clean up the directory
clean:
<pre>@echo "Cleaning up project directory"</pre>
rm -f *.0 *~ \$(EXE)
Package up the directory
package:
"echo"Cleaning up project directory"
tar cvf r4.tar/R4
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