

CH6 Homework Quiz

- 6.1: 12, 20, 22
- 6.2: 8
- 6.3: 4
- Supple.: 6
- Construct a state diagram for a finite state machine with $I=O=\{0, 1\}$ that recognizes all strings in the language $\{0, 1\}^*\{01\} \cup \{0, 1\}^*\{10\}$
- **Advanced assignment (not included in quiz)**
 - Design a FSM with $|S|=n$, that can recognize m special patterns (pattern length=2)
 - Give an example FSM that $n \leq 4$, $m=2$
 - Try to find a FSM that $n=m+1$ when $m>2$
 - What will happen when pattern length=3?