Game

Course topics, motivation (hardware, AI, brains, the universe!)
amas, Rizza, Gradescope

O input: DIDI---.
Output: YES if #1's is oven

(2) 1 (q₁) 0

ACCEPT if Po is final state

(2) Accept if input decimal integer is disjsible by 3.

ACCEPT if % is final

Finite Automata (DFA)

Q; finite set of states Q= \{\alpha_0, \alpha_1, \cdots \\ \eta}

 Σ : input alphabet, e.g. $\Sigma = \{0, 1\}, \{a,b,c.,z\}$ (finite) $\{0,1,...,q\}$.

(finte)

{0,1,...9}

 $S: Q \times \Sigma \rightarrow Q$

transition function (q, a) -> q'.

Fig Q: accepting states.

90 EQ: start state