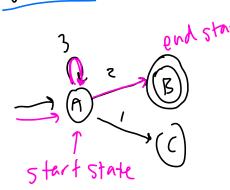
## State diagrams

directed graph where nodes are states and edges are actions



input: 332

phone lattice:

chop, chip, chat are accepted.

State diagram is defined by set of states 5

Stt of actions A transition function f: 5x A = P(S

depends on question

$$S = \{1/2/3, 4/5/6/7\}$$
 $A = \{1/2/3, 4/5/6/7\}$ 
 $A =$ 

in this class, only deterministic state madrines: 46:5xA-95

example: build a deterministic state diagram that takes a sequence of 1,2,3's and enters an ends state whenever the sum thus far is a multiple of 3.

