

(Ref. Sipser, p. 41-44.)

$$\Sigma = \{0, 1, 2, 3\}$$

$\{x \mid \text{the first character in } x \text{ is the same as the length of the string } x.\}$

- Start w/ \emptyset .

ϵ — X

- Start w/ 1

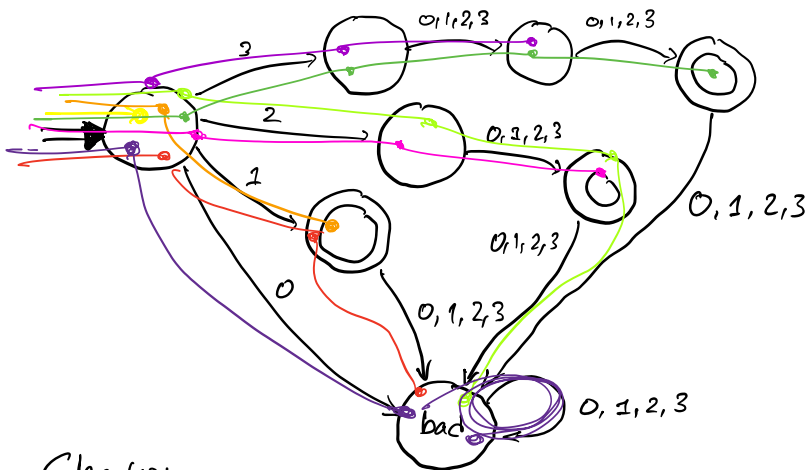
1 — ✓

- Start w/ 2

20, 21, 22, 23

- Start w/ 3

3XXX



Checks:

- start state, accept state(s)
- transitions: all states, all characters
- test a bunch of strings, including ϵ .

input	output
ϵ	X
1	✓
10	X
21	✓
200	X
313	✓
31	X
01333	X