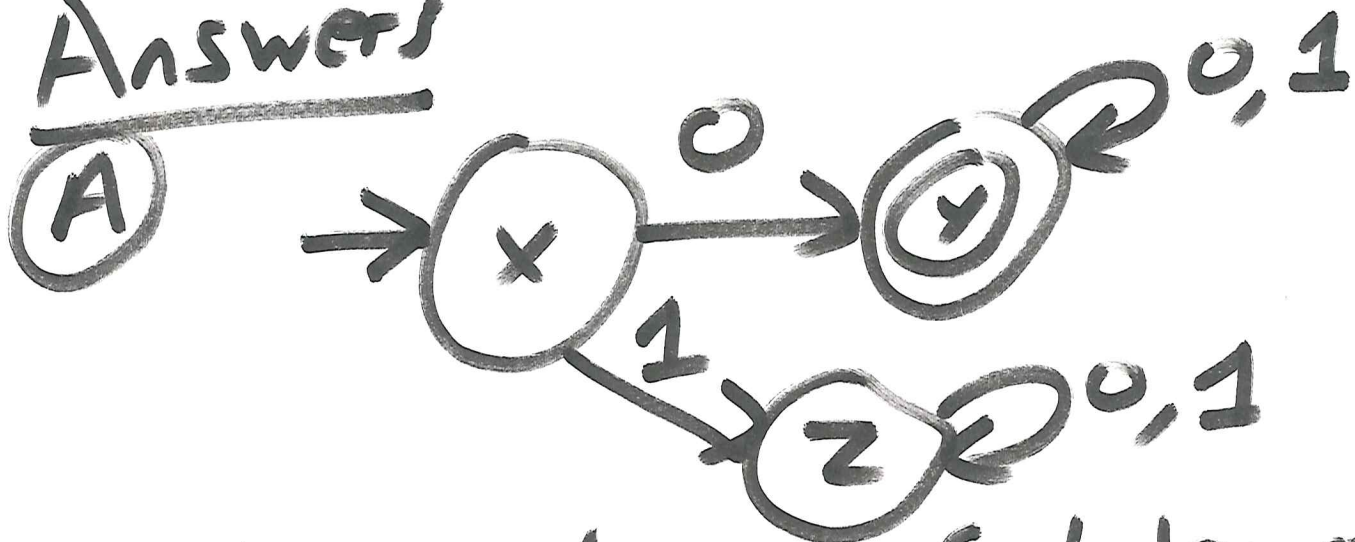


Second Example

In each case, alphabet $\{0,1\}$
Give (separate) FA for:

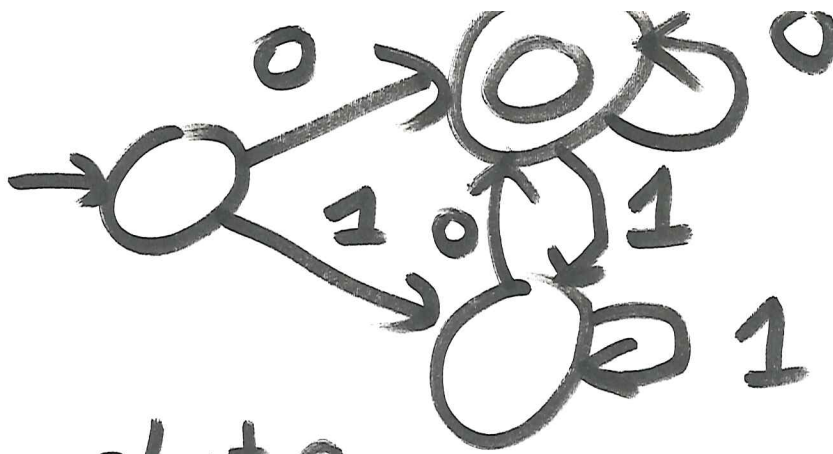
- (A) all strings starting with 0
- (B) " " ending " "
- (C) " " containing exactly one 0
- (D) all strings not containing 0

Answers



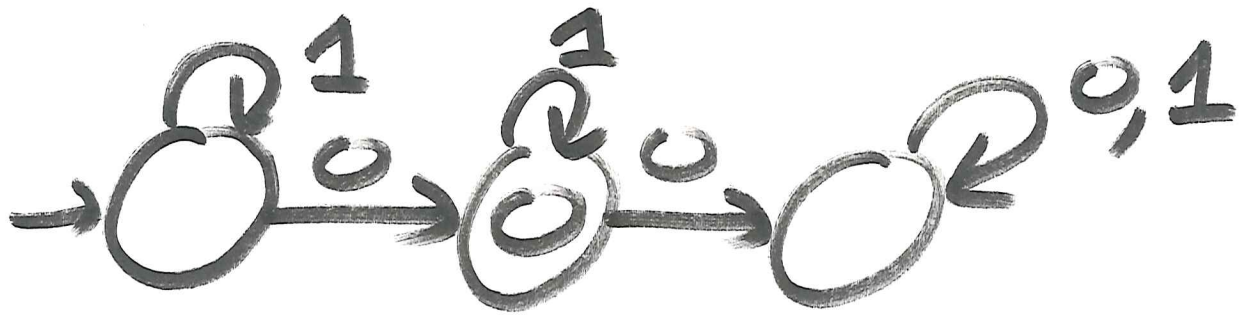
- letters/names of states optional
- can write multiple chars on arrow
- Y & Z are traps

B)

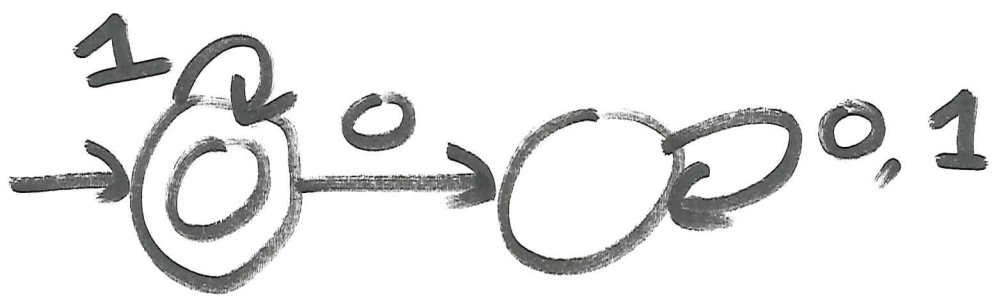


state = memory of FA

C)



D)



- it is important that FA does correct for E
- this FA is actually special type called deterministic FA or DFA.