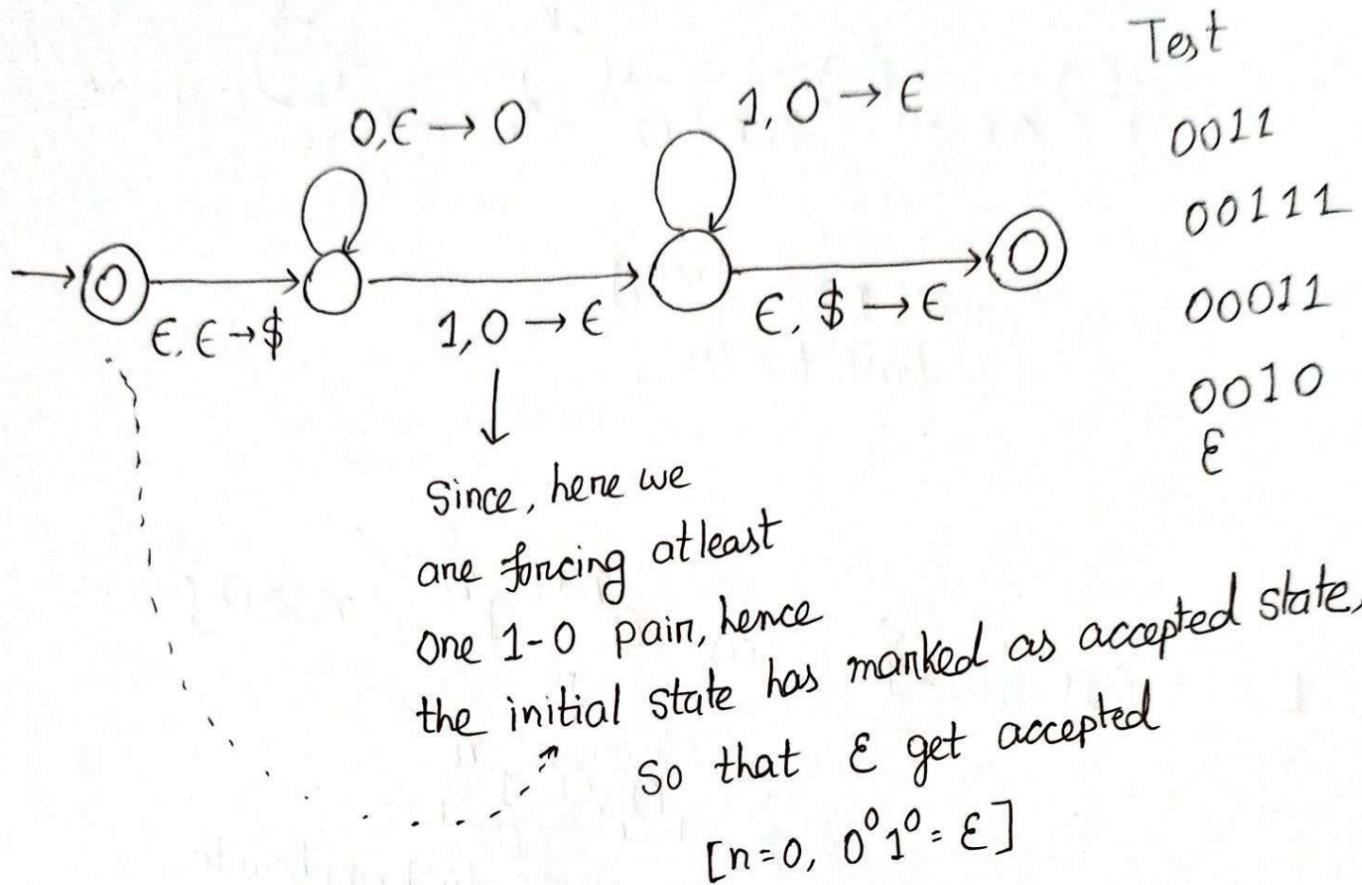
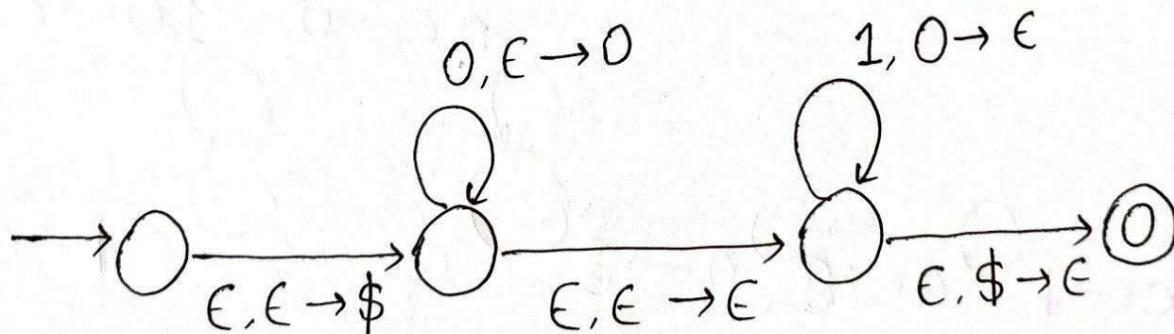


PDA

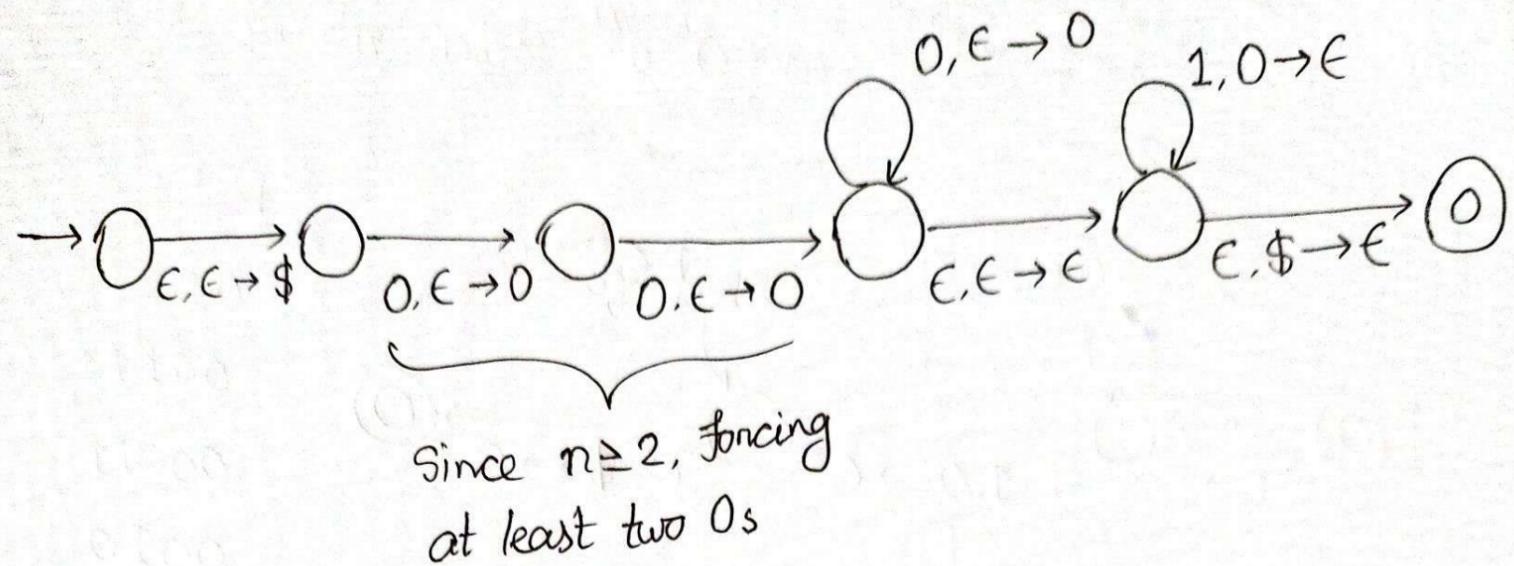
Q: $L = \{w \in \{0,1\}^*: w = 0^n 1^n, \text{ where } n \geq 0\}$



Alternate way:

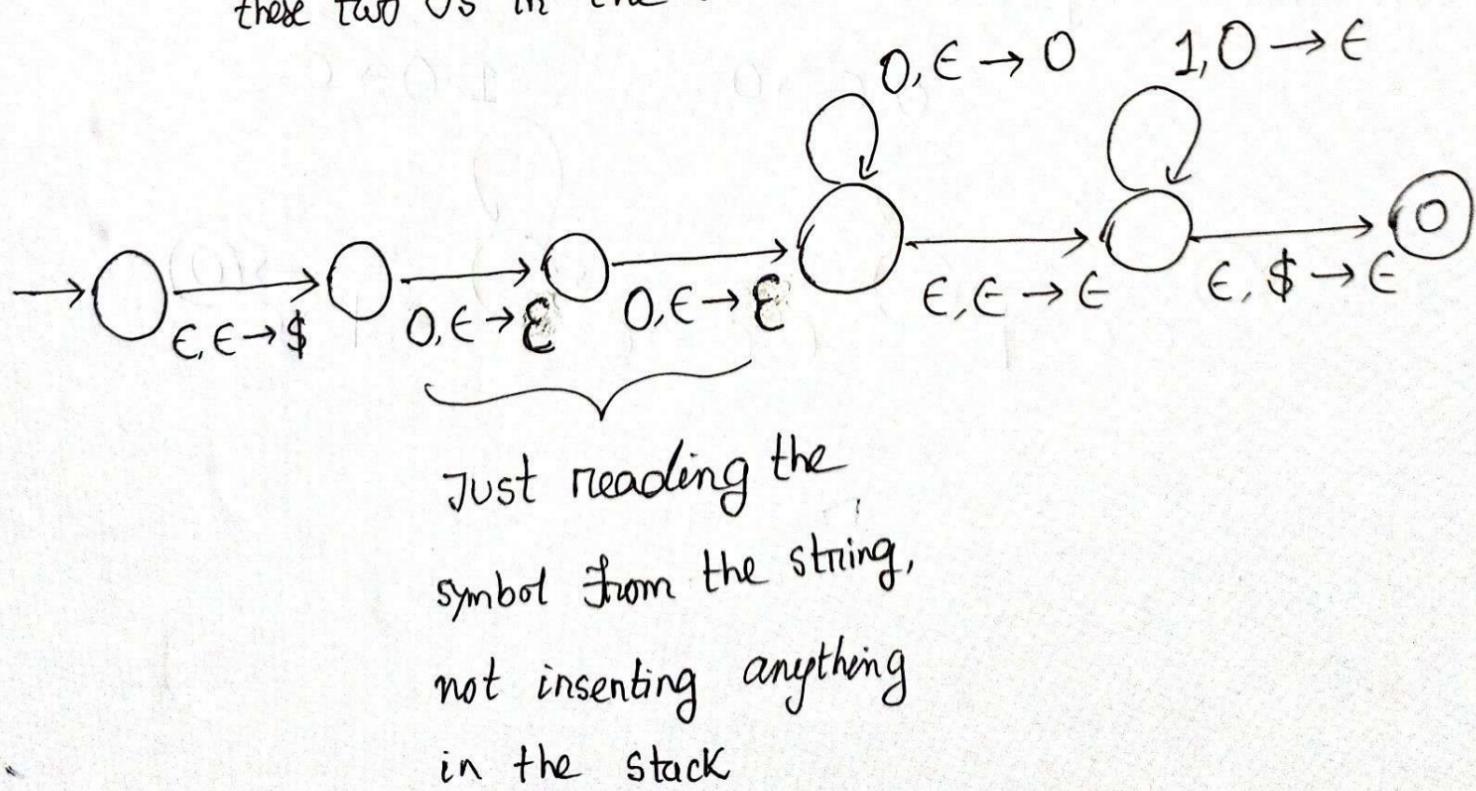


Q: $L = \{\omega \in \{0, 1\}^*: \omega = 0^n 1^n, n \geq 2\}$



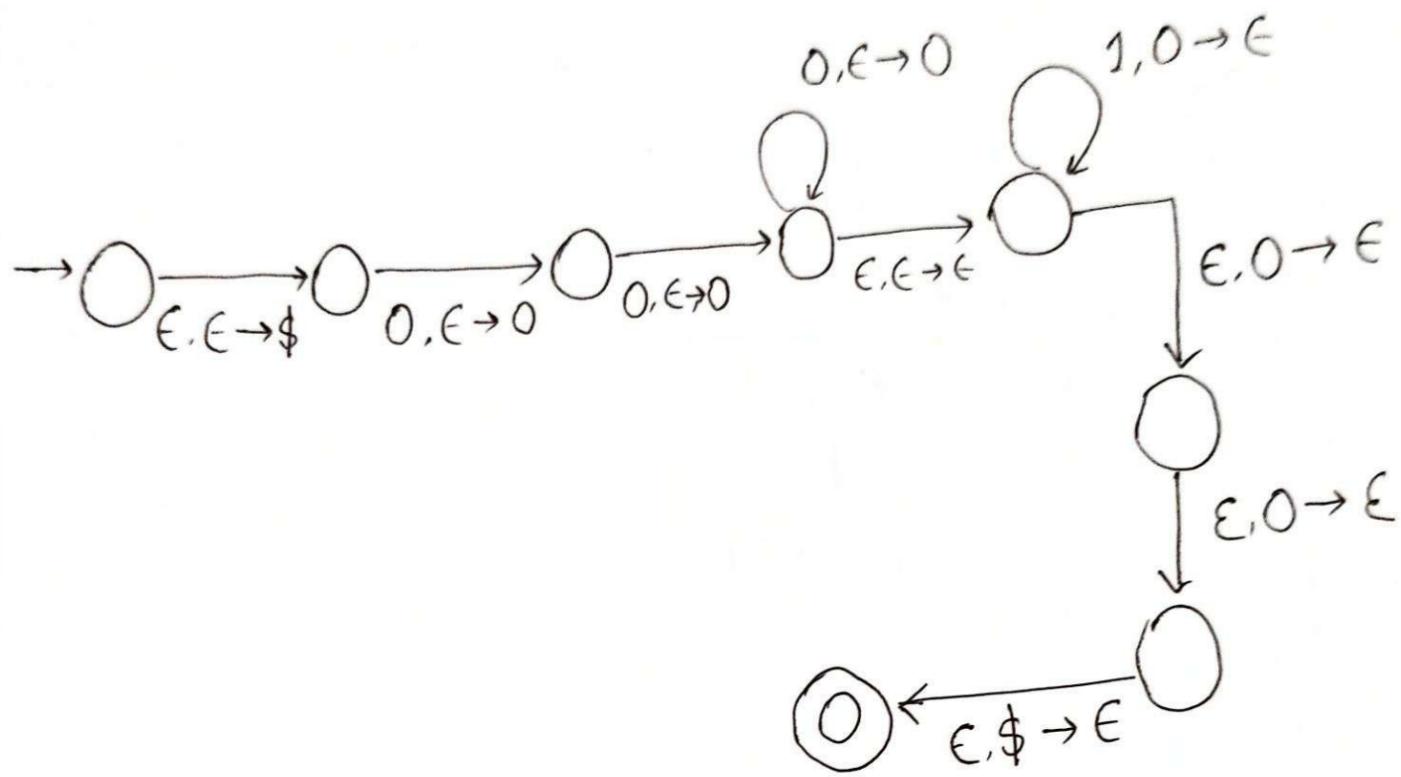
Q: $L = \{\omega \in \{0, 1\}^*: \omega = 0^{n+2} 1^n; n \geq 0\}$

\downarrow
 $0^2, 0^n 1^n$
 Let's not push these two 0s in the stack already know how to solve



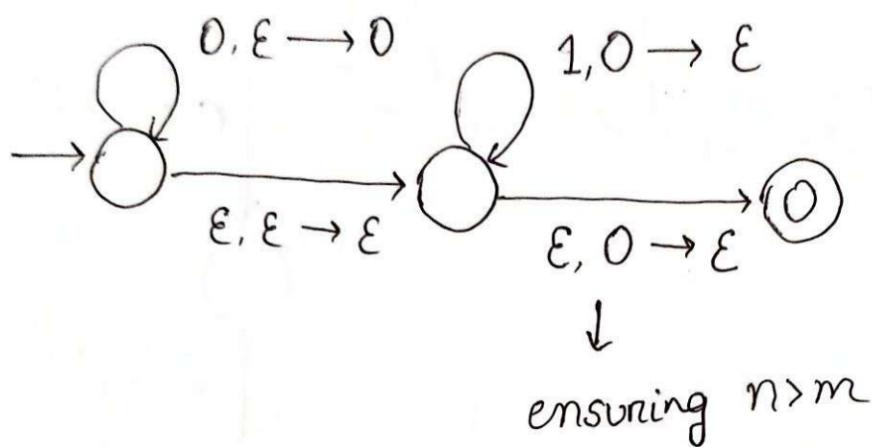
Alternate way:

let's say, we insert those two 0s in
our stack:



Q: $L = \{\omega \in \{0, 1\}^*: \omega \in \omega = 0^n 1^m, \text{ where } n > m$
and $m \geq 0\}$

You may insert \$ symbol



ensuring $n > m$

Q: $L = \{w \in \{0, 1\}^*: w \text{ is a palindrome}\}$

