Design a Turing Machine that decides the language expressed by the regular expression a*abb*baa*.

Design a Turing Machine that decides the language expressed by the regular expression a*abb*baa*. $(s, \# \omega): D (s, starting state) \# \omega: tape_ent_2$ Next TM Condition $L = \begin{cases} a^n b^m a^k & (n,k>0, m>1) \end{cases}$ > A R.B Rq6, #7. C $G = \alpha$ B (7 t a has hns $\sigma = a$ K{b,#}. R.D o= # hno 1 R{a,#3.E $\sigma = b$ D T = b hns T≠b hno O=#

Design a Turing Machine that decides $L = \{w \in \Sigma^* \mid w = w^r; w^r \text{ denotes the string written in the reverse direction}\}$ where the initial configuration is (s, #w).

Condition	Next TM		
_	R.B		
o=×≠井	# R#. L. C		
C = #	hyes	-> even	leng th
() = X	#.L _# .R.B		
T ≠ X N O ≠	# has		
C=#	hyes	→ odd	length
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$