Theory of Automata

Assignment # 03

Turing Machine

- 1. Construct a Turing Machine (TM) for language $L=\{\ a^i\ b^j\ c^k\ |\ i>j>k;\ k>=1\ \}$ and give the status for the input string as accepted or rejected; input = aaabbc.
- 2. Construct a TM for L = $\{ wCw, where w \in \{ a, b \}^* \}$
- 3. Construct a TM that converts given unary numbers to binary.