Nader S. Opeyany

Assignment 10

Let *A* = {0*,1*}. Find a Turing machine *M* which recognizes the language L = { }, that is, Provide all components of M

A=A U {B} //with blank

S={s0,sN,sY

D={R,L}

Q1={s0,0,0,s0,R}

Q2={s0,1,1,s1,R}

Q3={s0,B,B,sN,R}

Q4={s1,0,0,s2,R}

Q5={s1,1,1,s1,R}

Q6={s1,B,B,sN,R}

Q7={s2,0,0,sN,R}

Q8={s2,1,1,s3,R}

Q9={s2,B,B,sN,R}

Q10={s3,0,0,sN,R}

Q11={s3,1,1,sN,R}

Q12={s3,B,B,sY,R}