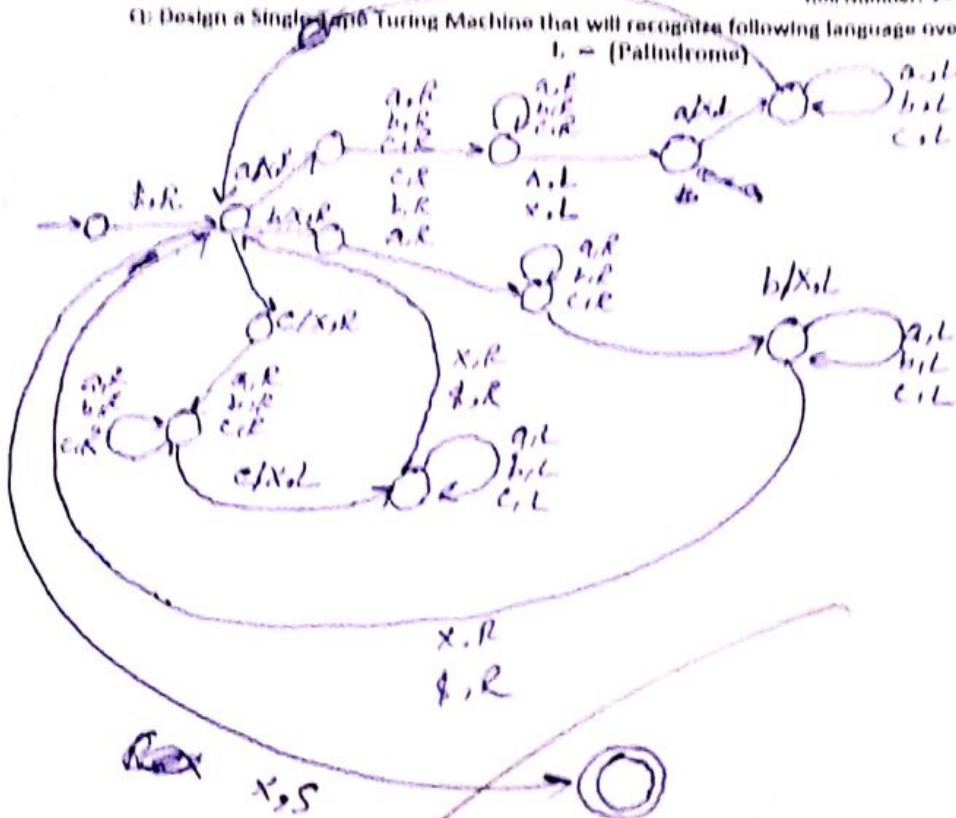


Name:

Roll Number: 201-0961

Q: Design a Single Tape Turing Machine that will recognize following language over {a,b,c}?

$L = \{ \text{Palindrome} \}$



If found A, write X & go to end until X/A is found, check previous char

If b found, go to second last char left & check if it is b

If c found, go to second last char & check if it is c

* Then go to start

go to the starting element 1 & after X or \$

10

{ a c a b b b a c a ,

x x x x x x x x x

5-B

Theory of Automata

Quiz-6

Date: 1st Dec 2022

Name: Zaryab Safdar

Roll Number: 19L-2217

Q. Design a Single Tape Turing Machine that will recognize following language over $\{a,b,c\}$?
 $L = \{\text{Palindrome}\}$

$L = \{abcba\}$

