	Name:	Demetrius Johnson		FEB 16, 2021		
	No calculators of incomplete wor	<i>re allowed.</i> Show your was a show your was a shown as	no credi	t.	lem are indicated.	Problems with
	Points:	/ 15	COs:	[Question 1]		
C5 Gramm	1. [10 pts] strings of	Draw a Turing N		state transition diagran		
Σ=	80,13	112 implied				
REC	(600)			Read - N	nte-Mure	
Defined						
RE	- (I+0)*	(101)(1+0)*		TM		
state	Das State	O;O;R Oio;R Oio;R Oiii;R		oioir oir	Accept State	

2. [5 pts] Give the configuration after applying the *appropriate* transition function, using the symbols a, b, c. Only apply the transition function **once**. PICK THE CORRECT TRANSITION FUNCTION, and apply it, giving your final configuration

Assume your original configuration is: abbaq1bba

Transition functions available:

•
$$\delta(q_1, a) = (q_2, a, R)$$

• $\delta(q_1, b) = (q_3, c, L)$
• $\delta(q_3, a) = (q_4, c, R)$

original: Gbbqq, bbq

> Reading

This function is for when Read head is reading

a "b"; Resultant configuration after applying

S(q, b) -> if in state "1" and reading a "b",

move to state "3" by first writing a "c" over

Current read of "b", then move to the Left.

abbagabba $\rightarrow 3(9,6) = (95, c, c) \rightarrow [abbagacba]$ After Applying I trans.

Function Once; using the appropriate f(x)from the start state and position given.