#recognize the lanuage of string with substring bab

def switcher(state,l):

if state == 0:

if l == 'a':

return 0

elif l == 'b':

return 1

elif state == 1:

if l == 'a':

return 2

elif l == 'b':

return 1

elif state == 2:

if l == 'a' :

return 0

elif l == 'b':

return 3

elif state == 3:

if l == 'a' or l == 'b' :

return 3

state = 0

s = input("Enter the string: ")

for l in s:

state = switcher(state,l)

print (state)

if state == 3:

print("String is accepted")

else :

print("String is Rejected")