Name: ASWIN SAMPATH	ID_ \$3844684
1. (60 pts) Write a function, "addBinary" which takes two string.	
Logic: 1 Make both Strings canal by add	ing O's at the front of the Amaller attring
@ Add one more zero at front to have	lie carry. @ Loop from behind & Keep
string. Logic: 1 Make both Strings canal by add Add one more zero at front to have track of Sum and Carry and assign to	to the final string. a Robus finel string
	1 string add Binary String Helper (
String add Binasy (String as, String as) (sning a sning by
4(ax.size 1) < 000 pt 396()){	
string as = addZeros (as, bisjec)-assijec)	string e (a.sije()))
string 62 = 61;	for(i= a.sje()-1; i>=1; i)
else { string b2 = add zeros (b1, a1.sign	(c) - 61-5ye()); { c(i] = (a[i]-101)^ (b[i]-6
string az = a;	~ (carry) #+ 'o';
/ Add zoro to handle carry	(aci)-10') L (b(i)-10)
Itning $b = 40^{\circ} + 62$;	2 carry;
String a = "0" + az;	
V	string c(o) = carry + 'o';
String c(b. Lije()); // Declare final	string. return C;
	1
c = add Binary String Helper (a, b); return c;	across add Texas (stringles, int n)
return c;	(String additions)
J	(white (1) &
Time complexity: O(n) where n is the bigge	string add Zeros (stringle, int n) while (n-) { while (n-) { return s; or your code above. 0 = 00010 Track from
2. (40 pts each) write one testcases and one edgecase to	or your code above.
TC1: a = 00±0 , make both earnal	6=00001 > back and 500011
b = 01 ½	0000 > Track from 000 10 6=00001 > back and 5000 11 handle carry (=>00 10)
$C2: a = 1011 \rightarrow 01011 \rightarrow 0$ $b = 1001 \rightarrow 01001 \rightarrow 0$	
11/2: a= 1011 -> 01011 ->	
6 = 1001 0 1001 0	
(3)	0 1 0 0