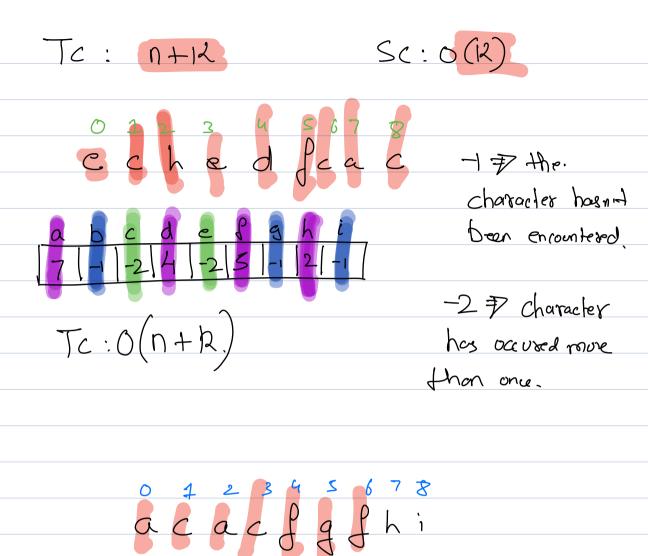
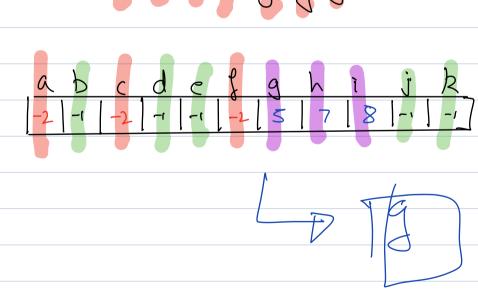


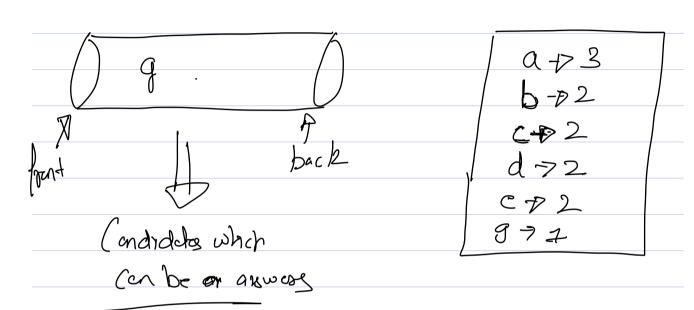
On Given a string. Find the first non-repeating character. Exi a bcabef. Character.
non-repeating character.
20 0111908
Characlex.
Exi abcabel.
Approch 1: Using = maps.
, pp ,
D travelce and maintain of
cach character.
a) language de classe and le cha
Tourge the Stoing again & Ind the
each character. 2) travace the string again of find the first character whose form is 1.
C: N+n = 0(n)
$Tc: n+n \neq o(n)$ $SC: o(K)$





<u>Oh</u>	Given a stream of characters, after adding every character. Jind the first non-
EXI	abcadedabecq aaabbbbcc#g,
	Approach 1: Using the last Subtran aller every new character.
	Tc: O(nR) Sc:O(R).

abcadedabecg aaabbbbcc#g



Tc: O(n+k)

Sc: 0(K)

