

S = bbacba







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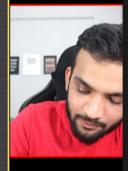
Number of substraints containing all three characters





S = bbacba hmh 53] = 803 hach { s { j}] - ' ~ '] = 1 ', ig (han 90] + han 21] + han 1927 = = 3)

cut = cut + 1;





S = bbacba cut = 0 hah { 3] = { 0} hach { s { j } - ' ~ '] = 1 ', ig (han 90] + hash gi] + hanh go] = = 3) cut = cut + 1; print (cut);

•••



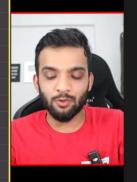


TC -> O(N2) S = bbacba 50 -> 0(1) cut =0 hmh [3] = {0} hach { s { |] - ' ~ '] = 1 ' ig (han so] + hash &1] + hanh \$2] = = 3) cut = cut + 1; print (cut);





TC -> 0 (W2) bbacba 012375 6 - 3 56 -> 0(1) cut =0 hmh 53] = {03 hach { s { |] - ' ~ '] = 1 ' ig (hanh so] + hash 8,] + hanh 8,] = = 3) cut = cut + 1; print (cut);



TUF

TL -> O(W2) bbacba 012375 6 - 3 56 -> 0(1) cut =0 hah [3] = {0} hach [s [] - ' ~ '] = 1 ' ig (han so] + hash g,] + hanh g,] = = 3) cut = cut + (n-j), break; print (cut);





S = bbacba

with every character, thre 15 a substrung that ends.





with every chanacter, thre is a substrucy that ends.

lostScen

a= -/

b = -X

C = //



+2



S = bbacba 012345 with every character, thre is a substrung that ends.

lostScen

2 px

L = M



+2+3

S = bbacbo

lastScen

with every character, thre is a substrung that ends.

2 = 1

L = M

GEELY'

+2+3



S = bbacba

with every character, thre is a substring that ends.





with every chanadrer, thre 15 a substrung that ends.

fore (5)

 $lastscen {37} = {7-1, -1, -1}$



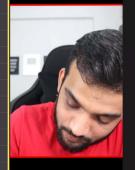


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Last scen \S 3 \ = \{-1, -1, -1\}; cut 20

fin \{i = 0 \rightarrow n\}

fant Scen <math>\S \S \S 3 \ -1 = i;

iy [last Scen \S
```





Jn(i= 0 → n) last Seen & s \ i] - 'a'] = i; ig [lost seen 8 0] 1 = -1 28 -...)

cut = cut + (1 + mon [lout seen 50], 51], 52]





for (i = 0 -> n) last Seen 9:59i] - 1a1] = i; ig [loutscen 5.7 1 = -1 28 -...)

cut = cut + (1 + mon [loutsen 50], 517, 52] reham cut;





```
ja (i = 0 → n)
         last Seen & s s i ] - 'a'] = i;
ig [ lastscen 8.07 1 = -1 28 -...)

cut = cut + (1 + mon [ lastsen 8.07, 8.17, 827)
 reham cut;
```





for (i = 0 -> n) last Seen & ssi] - 'a'] = i; ig [last seen 507 1 = -1 28 -...)

cut = cut + (1 + man [last seen 503, 517, 52]) rehum cut;

