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str = abc

permutations = [ abc, bac, cab, bca, acb, ... ]

no. of cells = size of  $p+1$

( " / abc )

ab  
ba

( a / bc ) 0

3! = 6

( ba / c )

( ab / c )

cba /  $\phi$

bc a /  $\phi$

bac /  $\phi$

cab /  $\phi$

acb /  $\phi$

abc /  $\phi$



0 1  
b a

for (i = 0; i <= 2; i++) {

[0, i)  
+ ch  
+ [0, 2]

(0, i] + ch + [i, 2]  
b + ch + a

(0, 2] + ch + [2, 2]  
ba + ch

y = substring(0, i)  
~~S = substring(i, length)~~  
p = y + ch + S

