String permutation Algorithm :

str → input string   aux → for each permutation

① take ith (i=0 to (str.-1)

   aux + str[i] ;

② Now aux new string will be without
   char i

   str = str.substr(0,i) + str.substr(i+1, str);

   str   auf   aux   str

eg: abc

       acax

eg: aux   string   i
           ""   abc   0
           a   bc   0
           ab   c   0
           abc   ""   0

                                               Now i>1
w
   if   str.length() == 0   b   ac
                                     ba
       result.insert(aux);   bac
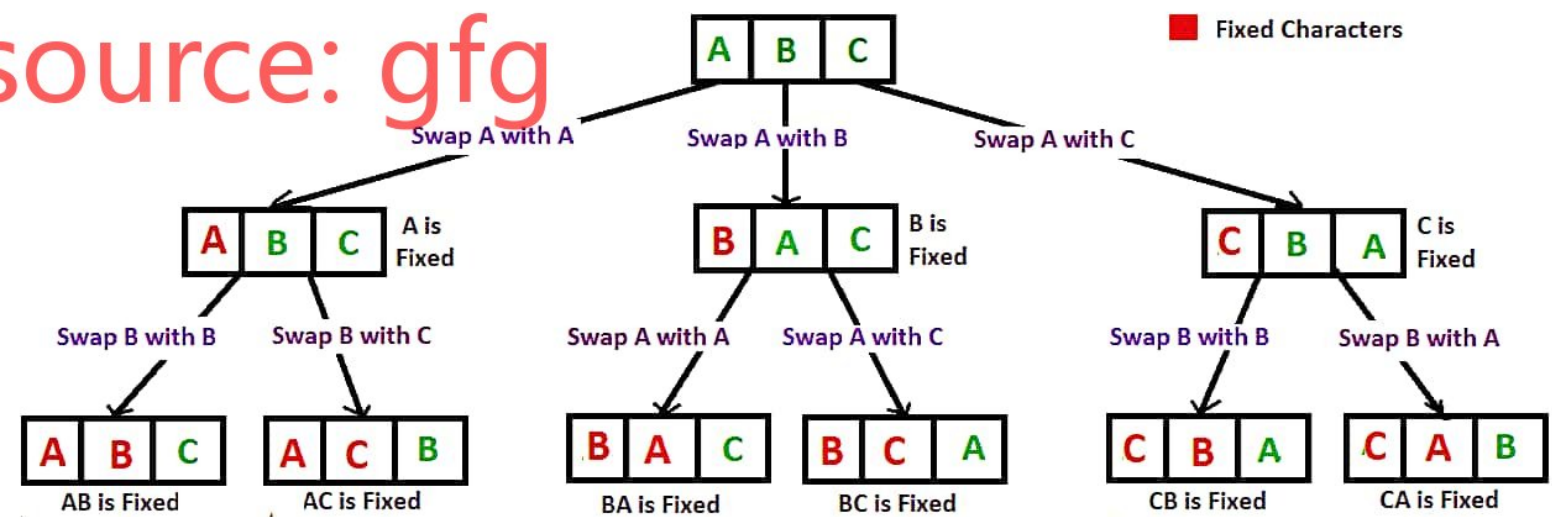
Recursion Tree for Permutations of String "ABC"