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| // Write a program in C to print all permutations of a given string using pointers |
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|  | #include <stdio.h> |
|  | #include <string.h> |
|  | void swap (char \*x, char \*y) |
|  | { |
|  | char temp; |
|  | temp = \*x; |
|  | \*x = \*y; |
|  | \*y = temp; |
|  | } |
|  | void permute(char \*a, int i, int n) |
|  | { |
|  | int j; |
|  | if (i == n) |
|  | printf("%s\n", a); |
|  | else { |
|  | for (j = i; j <= n; j++) |
|  | { |
|  | swap((a + i), (a + j)); |
|  | permute(a, i + 1, n); |
|  | swap((a + i), (a + j)); |
|  | } |
|  | } |
|  | } |
|  | int main() |
|  | { |
|  | char a[20]; |
|  | int n; |
|  | printf("Enter a string: "); |
|  | scanf("%s", a); |
|  | n = strlen(a); |
|  | printf("Permutaions:\n"); |
|  | permute(a, 0, n - 1); |
|  | getchar(); |
|  | return 0; |
|  | } |