//permutation1.c

//Permutationen: aus dem Buch Kaiser, Guddat, C/C++, Seite 210

//Rekursive Funktion perm:

#include <stdio.h>

void perm(int count, char array[], int start);

int main(void)

{

 char chars[] = "TEWR";

 printf("Vorher: %s\n", chars);

 perm(4, chars, 0);

 printf("Nachher: %s\n", chars);

 return 0;

}//main

void perm(int count, char array[], int start)

{

 if(start < count)

 {

 char sav = array[start];

 for(int i = start; i < count; i++)

 {

 array[start] = array[i];

 array[i] = sav;

 perm(count, array, start + 1);

 array[i] = array[start];

 }//for

 array[start] = sav;

 }//if

 else

 printf("%s\n", array);

}//Funktion