#include <iostream>

#include <conio.h>

using namespace std;

void Swap(char \*a, char \*b)

{

char ch;

ch = \*a;

\*a = \*b;

\*b = ch;

}

void Permutation(char \*s, int i,int n)

{

static int count; int j;

if(i == n)

{

count ++;

cout << count << " ";

cout << s << endl;

}

else

{

for(int j = i; j <= n; j++)

{ // a b,c

Swap((s+i),(s+j)); // int the loop 1st run a swap with a and 2nd a sawp with b and 3rd time a swap c

Permutation(s,i+1,n); // here s point to abc,

Swap((s+i),(s+j));

}

}

}

void main()

{

char str[3];

cout << "Enter string ";

gets(str);

Permutation(str,0,strlen(str)-1);

getch();

}

