//Given a string like “abc” print its permutation like- abc,acb,bac,bca,cab,cba

#include<iostream>

using namespace std;

void permutation(char \*a, int i)

{

//Base case

if(a[i]=='\0')

{

cout<<a<<" ";

return;

}

//Recursive case

for(int j=i;a[j]!='\0';j++)

{

swap(a[i],a[j]);

permutation(a,i+1);

//Backtracking- to restore the original array

swap(a[i],a[j]);

}

}

int main()

{

char a[100];

cin>>a;

permutation(a,0);

}