```cpp
#include <iostream>
using namespace std;

int subs(string input, string output[]) {
 if (input.empty()) {
  output[0] = "";
  return 1;
 }

 string smallString = input.substr(1);
 int smallOutputSize = subs(smallString, output);
 for (int i = 0; i < smallOutputSize; i++) {
  output[i + smallOutputSize] = input[0] + output[i];
 }
 return 2 * smallOutputSize;
}

int main() {
 string input;
 cin >> input;
 string* output = new string[1000];
 int count = subs(input, output);
 for (int i = 0; i < count; i++) {
  cout << output[i] << endl;
 }
}
```