LACS-Elite-Combination-Part001

Solved Challenges   0/2

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String Characters - Combinations Sorted

ID:11075   Solved By 628 Users

The program must accept a string **S** as the input. The program must print the combinations of the characters in the string S in sorted order.

Boundary Condition(s):
2 <= Length of S <= 15

Input Format:
The first line contains the string S.

Output Format:
The lines containing the string values representing the combinations of the characters in the string S in sorted order.

Example Input/Output 1:
Input:
abc

Output:
a
ab
abc
ac
b
bc
c

Example Input/Output 2:
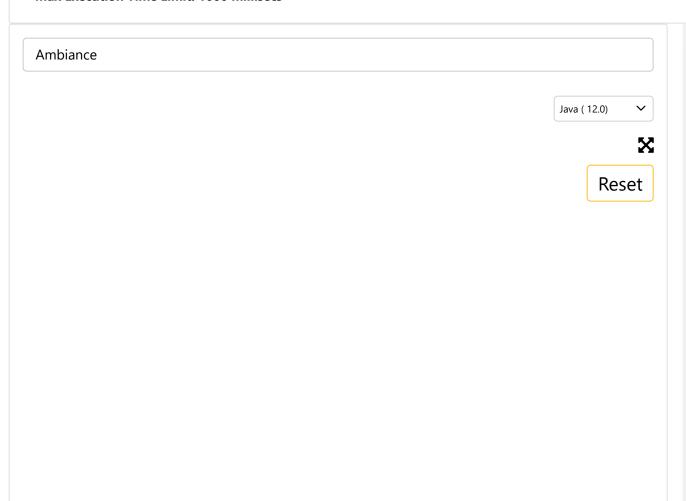Input:
virus

Output:
i
ir
irs
iru
irus
is
iu
ius
r
rs
ru
rus

s
u
us
v
vi
vir
virs
viru
virus
vis
viu
vius
vr
vrs
vru
vrus
vs
vu
vus

Max Execution Time Limit: 1000 millisecs

Ambiance

Java (12.0)

Reset

```java
1  import java.util.*;
2  public class Hello {
3
4      public static void main(String[] args) {
5          Scanner in = new Scanner(System.in);
6          String str = in.nextLine();
7
8          List<String> combinations = new ArrayList<>();
9          for(int ctr=1;ctr<(1<<str.length());ctr++)
10         {
11             StringBuilder sb = new StringBuilder();
12             for(int bmi=0;bmi<str.length();bmi++)
13             {
14                 if((ctr & (1<<bmi)) !=0)
15                 {
16                     sb.append(str.charAt(bmi));
17                 }
18             }
19             combinations.add(sb.toString());
20         }
21         Collections.sort(combinations);
22
23         for(String s:combinations)
24         System.out.println(s);
25
26
27     }
28 }
```

Please wait while we run the program ....

☐ Run with a custom test case (Input/Output)