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Print all possible strings 🔖

Submissions: 4575 (/problem_submissions.php?pid=700252)   Accuracy: 32.85%   Difficulty: Basic (https://practice.geeksforgeeks.org/Basic/1/0/)   Marks: 1

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Problems

Given a string **str** your task is to complete the function **printSpaceString** which takes only one argument the string **str** and prints all possible strings that can be made by placing spaces (zero or one) in between them.

LIVE BATCHES

For eg . for the string abc all valid strings will be

      abc

      ab c

      a bc

      a b c

Input:
The First line of input takes an integer T denoting the number of test cases . Then T test cases follow . Each line of test case contains a string str .

Output:
For each test case output the strings possible in a single line separated by a "$"

Your Task:
Complete the function **printSpace()** which takes a character array as an input parameter and print all possible answers. The new line will be added by driver code only, you don't need to print a newline.

Expected Time Complexity: $O(N * 2^N)$
Expected Auxiliary Space: $O(N)$

Constraints:
1<=T<=100
1<= length of string str <=10

Example:
Input
2
abc
xy
Output
abc$ab c$a bc$a b c$
xy$x y$

Explanation:
Test Case 1: Explained in the above statement.
Test Case 2: There are two possibilities, xy and x y.

Note: The **Input/Ouput** format and **Example** given are used for system's internal