Week 2 – Prompt #2

Prompt

Given a **string**, `str` , of **size** `n` find all of its permutations.

Constraints

The **input**:

- $0 \leq n \leq 7$
- $str[\ i\ ]\ \epsilon\ (\ _{ascii}[\ a-z\ ]\ )$

Function Description

Complete the function `str_permutations` . It will return the resulting **array**.

The function `longest_palindrome` has the following **parameter(s)**:

- A string `str`
- An int `left_side`
- An int `right_side`
- An array `permutations` – *this value is passed by reference*

Return/Output

Return an **array**, `permutations` , with all the longest substring palindrome(s).

Notes

* **Note #1**: HackerRank has a time limit of **2 seconds** for C++ prompts.

* **Note #2**: *The function will timeout with a* **'n'** *size of (**8**) – roughly 2.8+ seconds. (**7**) is a safe state for the prompt – roughly 312.6 milliseconds.*

Sample Input

$\{\ "abb"\ \}$

Sample Output

{ "abb", "abb", "bab", "bba", "bab", "bba" }

Explanation

Output all the permutations of the string

Resources

Note: The code execution time-limit is varied for different programming languages. Ensure that you refer the HackerRank environment specifications page for the time-limit specified for your chosen language. For instance, **Python** has a longer time-limit of **10 seconds** as compared to the **C language** which requires code execution within **2 seconds**.

- **https://support.hackerrank.com/hc/en-us/articles/360014096954-The-Terminated-due-to-timeout-status-in-HackerRank-Tests**
- **https://www.hackerrank.com/environment/languages**