# Week 2 – Prompt #1

## Prompt

Given a **string**, `word_container` , of **size** `n` find the longest substring which is palindrome.

## Constraints

The **input**:

- $0 \leq n \leq 70$
- $word\_container[\ i\ ]\ \epsilon\ (\quad ascii[\ 0-9a-zA-z\ ]\ and\ ascii[\ .?!',]\ and\ space\quad )$

## Function Description

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

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

- A string `word_container`

## Return/Output

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

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## Notes

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

* **Note #2**: *The function will roughly timeout after an* **'n'** *size of (**93**) – roughly 2.0 seconds. (**70**) is a safe state for the prompt – roughly 1.5 seconds.*

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## Sample Input

$\{\ ababad\ \}$

## Sample Output

$\{\ ababa\ \}$

## Explanation

$Output\ the\ longest\ substring(s)\ which\ are\ also\ palindromic$

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## 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**