

Palindrome Substring Coding Challenge

Task

Palindrome - is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as 'madam' or 'racecar'. Note that a single character is also a palindrome, for example "a", "b" etc., as they also read the same backward and forward.

Write a function that accepts a string and returns the longest possible palindromic substring of the string.

NB: you can assume that there will be only one longest palindromic substring.

Sample Input

string = "wrtfawmnoonmz"

Sample Output

"mnoonm"

Hints

- Try generating all possible substrings and check their palindrome characteristics.
- Remember that a palindrome is a string that is 'mirrored' and is symmetrical with respect to its centre (the centre can be a char – odd length or an empty string - even length). Therefore, it is possible to check 'palindromicity' of a string by expanding from its centre and checking whether the left and the right sides are mirrored.