problem statement

Longest Palindromic Substring Write a program to find the longest palindromic substring in a given string without using any built-in substring or reverse functions. For example, for input "babad", the output should be "bab" or "aba".

Code

```
function findLongestPalindrome(inputStr: string): string {
  let maxPalindromeLen = 0;
  let palindromeStart = 0;
  const findPalindrome = (str: string, leftIdx: number, rightIdx: number): void => {
     while (leftIdx \geq 0 && rightIdx \leq str.length && str[leftIdx] === str[rightIdx]) {
       leftIdx--;
       rightIdx++;
     const currPalindromeLen = rightIdx - leftIdx - 1;
     if (currPalindromeLen > maxPalindromeLen) {
       maxPalindromeLen = currPalindromeLen;
       palindromeStart = leftIdx + 1;
  };
  for (let i = 0; i < inputStr.length; i++) {
     findPalindrome(inputStr, i, i);
     // Check for even-length palindromes
     findPalindrome(inputStr, i, i + 1);
  }
  let longestPalindrome = "";
  for (let i = palindromeStart; i < palindromeStart + maxPalindromeLen; i++) {
     longestPalindrome += inputStr[i];
```

```
}
  return longestPalindrome;
const testStr = "babad";
console.log(findLongestPalindrome(testStr));\\
Output was "bab"
Sample Test Cases
```

Testcase 1

"abaxyzzyxf" -> "xyzzyx"

Testcase 2

"abccbadad" -> "abccba"

Testcase 3

"xyzabcba" -> "abcba"