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".

Instructions: Avoid using any string handling libraries. Implement a solution that checks all substrings

manually.

Solution:

```
function palindrome(s: string): string {
    const length = s.length;
    let longest = "";

    function isPal(start: number, end: number): boolean {
        while (start < end) {
            if (s[start] !== s[end]) {
                return false;
```

```
        }
        start++;
        end--;
    }
    return true;
}
for(let i=0;i<length;i++) {
    for(let j=i;j<length;j++) {
        if(isPal(i, j)) {
            const currentLength = j - i + 1;
            if (currentLength > longest.length) {
                longest = "";
                for (let k=i;k<=j;k++) {
                    longest += s[k];
                }
            }
        }
    }
}
```

```javascript
  }

  return longest;
}


console.log("OUTPUT:");
console.log(palindrome("babad"));
console.log(palindrome("madaming"));
console.log(palindrome("leveling"));
```

OUTPUT:

OUTPUT:

bab

madam

level