Sliding Window Pattern Exercise

Directions: Please solve the following problems in VS Code editor and submit a link to your GitHub project.

Problem #1

```
/*
Write a function called minSubarraySum which accepts an array of integers and a number
called n.
The function should calculate the min sum of n consecutive elements in the array.
*/

minSubarraySum([1,2,5,2,8,1,5],2) // 10
minSubarraySum([1,2,5,2,8,1,5],4) // 17
minSubarraySum([4,2,1,6],1) // 6
minSubarraySum([4,2,1,6,2],4) // 13
minSubarraySum([],4) // null

// O(n)
const minSubarraySumLinear = (arr, num) => {
}
```

Problem #2:

```
/*
Write a function called longestSubstringInString, which accepts a string and
returns the length of the longest substring with all distinct characters.

Please write in time complexity of O(n)
*/

const longestSubstringInString = (str) => {

}

// Test Cases:

// longestSubstringInString('') 0
// longestSubstringInString('rithmschool') 7
// longestSubstringInString('thisisawesome') 6
// longestSubstringInString('thecatinthehat') 7
// longestSubstringInString('bbbbbb') 1
// longestSubstringInString('longestsubstring') 8
```