**Palindromic Subsequence**

function reverseString(string) {

  let strArray = string.split("");

  let start = 0;

  let end = strArray.length - 1;

  let temp = "";

  while (start < end) {

    temp = strArray[end];

    strArray[end] = strArray[start];

    strArray[start] = temp;

    start++;

    end--;

  }

  return strArray.join("");

}

function isStringPalindrome(string) {

  return string === reverseString(string);

}

let element = [];

function stringSubsequence(input, output) {

  if (input.length === 0) {

    isStringPalindrome(output) && element.push(output);

    return;

  }

  stringSubsequence(input.substring(1), output);

  stringSubsequence(input.substring(1), output + input[0]);

}

const inputString = "abc";

const inputString1 = "abcd";

const inputString2 = "aab";

// stringSubsequence(inputString, "");

// stringSubsequence(inputString1, "");

stringSubsequence(inputString2, "");

console.log(element.length - 1);

**Triplet Sum**

class Solution {

    find3Numbers(A, n, X)

    {

        let elements = []

        A.sort((a,b)=>a-b)

        for (let i = 0; i < n - 2; i++){

            let left = i +1

            let right = n -1

            while(left<right){

                let sum = A[i] + A[left] + A[right]

                if (sum === X) {

                    elements = [...elements, A[i], A[left], A[right]]

                    left++;

                    right--;

                }else if(sum < X){

                    left ++

                }else{

                    right --

                }

            }

        }

        return elements

    }

}

const s = new Solution()

console.log(s.find3Numbers([1, 4, 45, 6, 10, 8],6,13))

console.log(s.find3Numbers([1, 2, 4, 3, 6],5,10))