

SKILL TEST/LOGIC TEST ANSWER

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1. Biggest Number

```
const input = 123;
const maxRedigit = function(input) {
  if(input < 100 || input > 999)
    return null
  return + input
    .toString()
    .split('')
    .sort((a, b) => b - a)
    .join('')
};
console.log(maxRedigit(input));
```

2. Map Array Data

```
function productMap(arr, n)
{

  if (n == 1) {
    console.log(0);
    return;
  }

  let l = new Array(n);
  let r = new Array(n);
  let product = new Array(n);

  let i, j;

  r[n - 1] = 1;
  l[0] = 1;

  for (j = n - 2; j >= 0; j--)
    r[j] = arr[j + 1] * r[j + 1];

  for (i = 1; i < n; i++)
```

```

        l[i] = arr[i - 1] * l[i - 1];

        for (i = 0; i < n; i++)
            product[i] = l[i] * r[i];

        for (i = 0; i < n; i++)

            console.log(product[i] + " ")

        return;
    }

    let arr = [ 3, 27, 4, 2];
    let n = arr.length;
    console.log("Produk Array :");
    productMap(arr, n);

```

3. Alternate Case

```

var switchCase = function(string){
    var newString = "";
    for(var i = 0; i<string.length; i++){
        if(string[i] === string[i].toLowerCase()){
            newString += string[i].toUpperCase();
        }else {
            newString += string[i].toLowerCase();
        }
    }

    return newString;
}

var arr = ['abc','ABC','Hello World'];
for (let i = 0; i < arr.length; i++) {
    console.log(swappedText = switchCase(arr[i]))
}

```

4. Multiple 3 And 5

```

function multiple(value) {
    var j = 0;
    for (let i = 0; i < value; i++) {

```

```

    if (i % 3 == 0 || i % 5 == 0) {
        console.log(i);
        j=i+j;
    }
}

//total dari penjumlahan kelipatan 3 dan 5
console.log('SUM : '+j);
}
//masukkan nilai disini
value=20;
//memanggil fungsi multiple dengan memberi parameter
multiple(value);

```

5. Nearest Fibonnaci

```

function sum(arr) {

    var nilai=arr.reduce( (x,y) => x+y, 0);
    let num = nilai;
    nearestFibonacci(num);
}

sum([15,1,3]);

function nearestFibonacci(num)
{

    if (num == 0) {
        console.log(0)
        return;
    }

    let number = 0, numberTwo = 1;

    let result = number + numberTwo;

    while (result <= num) {

        number = numberTwo;

```

```

        numberTwo = result;

        result = number + numberTwo;
    }

    let ans = (Math.abs(result - num)
        >= Math.abs(numberTwo - num))
        ? numberTwo
        : result;

    console.log(ans)
}

```

6. Reverse Words

```

function myFunction(string) {
    var rev= string.split("").reverse().join("").split("
").reverse().join(" ");
    console.log('Original : ' +string);

    convertCapital(rev);
};
function convertCapital(rev) {
    const arr = rev.split(" ");

    for (var i = 0; i < arr.length; i++) {

```

```

        if (arr[i].toLowerCase() != arr[i]) { //mendeteksi apakah string
mengandung huruf kapital, mengembalikan nilai true/false dan value
tersimpan ke Array
            arr[i] = arr[i].charAt(0).toUpperCase() +
arr[i].toLowerCase().slice(1);
        } else{
            arr[i] = arr[i].charAt(0).toLowerCase() + arr[i].slice(1);
        }
    }

    const stringTwo = arr.join(" ");
    console.log('Result : ' +stringTwo);
}
var string = 'I am A Great human';
myFunction(string);

```

7. Find Middle Alphabet

```
var Abjad = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
function findMid(a, b) {

    let stringOne = Abjad.indexOf(a);
    let stringTwo = Abjad.indexOf(b);
    let center = (stringOne + stringTwo) / 2;
    let length;
    if (center % 2 == 0.5) {
        length = 2;
    } else {
        length = 1;
    }
    return Abjad.substring(center, center + length);
}
console.log(findMid("Q", "U"));
console.log(findMid("R", "U"));
console.log(findMid("T", "Z"));
console.log(findMid("Q", "Z"));
```