

## JavaScript problem statements:

- 1) Complete the function using appropriate loop:

```
function doubleAll(numbers) { }
```

Arguments: An Array of integers

Return: A new Array which contains double value of each integer

Example:

- a) `doubleAll([4,2,3]); // [8,4,6]`
- b) `doubleAll(); // []`
- c) `doubleAll([1,5,2]); // [1,10,4]`

- 2) Given an Array of strings create an object that contains the number of times each string occurred in the array.

Hint: use object with "word" and "count" members to store the result [function

Counter(word,count) { // code }]

```
function countWords (input) {
```

```
}
```

Arguments: Array of strings

Example:

```
var inputWords = ['Apple', 'Banana', 'Apple', 'Durian', 'Durian',  
'Durian']
```

**Output:** Object containing string and number of times that string occurs

Example:

```
Apple: 2,  
Banana: 1,  
Durian: 3
```

- 3) Write a function to check if all the supplied users exist in the original list of users. You only need to check that the ids match.

```
var users = [ new User(100,"Roger"), new User(104,"Peter"), new User(121,"George"),  
new User(891,"Smith"), new User(191,"Kim")]
```

Complete the function to return true/false. Return true if all users exist in the "users" else return false.

```
function checkUsers(usr) { }
```

Example:

- a) `checkUsers([new User(191,"Kim"), new User(104,"Peter") ]); // true`
- b) `checkUsers([new User(120,"Kim"), new User(104,"Peter") ]); // false`
- c) `checkUsers([new User(121,"George"), new User(191,"Kim"), new User(104,"Peter") ]); // true`
- d) `checkUsers([new User(100,"Kim"), new User(104,"Peter"), new User(191,"Kim")]); // false`

- 4) Write a function `slice()` that exhibits the following behavior:

```
var nums = [1,2,3,4,5]  
function slice(input) { // complete the code }  
slice(nums, 0, 2) // [1, 2]  
slice(nums, 1, 2) // [2]
```

- 5) Implement function `doubleAll()` using recursion [ Hint use `slice()` function created for previously, and use `concat` method of array]