

LEVEL IV – JS:

JavaScript Basics - Problems on Array methods and strings

1. Write the function `camelize(str)` that changes dash-separated words like “my-short-string” into camel-cased “myShortString”.

That is: removes all dashes, each word after dash becomes uppercased.

Examples:

```
camelize("background-color") == 'backgroundColor';
camelize("list-style-image") == 'listStyleImage';
camelize("-webkit-transition") == 'WebkitTransition';
```

P.S. Hint: use `split` to split the string into an array, transform it and join back.

2. Write a function `filterRange(arr, a, b)` that gets an array `arr`, looks for elements with values higher or equal to `a` and lower or equal to `b` and return a result as an array.

The function should not modify the array. It should return the new array.

For instance:

```
let arr = [5, 3, 8, 1];

let filtered = filterRange(arr, 1, 4);

alert( filtered ); // 3,1 (matching values)

alert( arr ); // 5,3,8,1 (not modified)
```

3. Let `arr` be an array.

Create a function `unique_elements(arr)` that should return an array with unique items of `arr`.

For instance:

```
function unique_elements(arr) {  
  /* your code */  
}  
  
let strings = ["React Js", "JavaScript", "React Js", "JavaScript",  
  "JavaScript", "JavaScript", "React Js", "React Js"  
];  
  
alert( unique(strings) ); // React Js, JavaScript
```

4. Create a function `truncate(str, maxlength)` that checks the length of the `str` and, if it exceeds `maxlength` – replaces the end of `str` with the ellipsis character "...", to make its length equal to `maxlength`.

The result of the function should be the truncated (if needed) string.

For instance:

```
truncate("What I'd like to tell on this topic is:", 20) = "What I'd like to te..."  
  
truncate("Hi everyone!", 20) = "Hi everyone!"
```

5. We have a cost in the form "\$120". That is: the dollar sign goes first, and then the number.

Create a function `extractCurrencyValue(str)` that would extract the numeric value from such string and return it.

The example:

```
alert( extractCurrencyValue('$120') === 120 ); // true
```