

# Frontend Developer Interview

## JavaScript

1) According to the following piece of code:

```
function Person() { }  
Person.prototype.jobs = [];  
var person1 = Person()  
var person2 = new Person()  
var person3 = new Person()
```

a) What's the difference between person1 and person2?

b) Which jobs have person2 according to the following code. Please, explain why in as much detail as possible.

```
person2.jobs.push('developer');  
person2.jobs.splice(-1, 0, 'engineer');  
person3.jobs.push('PhD');  
person2.jobs.concat(['technician']);  
person3.jobs.shift();
```

c) Add two jobs (“developer” and “engineer”) to person2 and only one (“PhD”) to person 3.

2) Given an array:

```
var foo = ['one', 'two', 'three', 'four'];
```

Write an algorithm to send each element to the server asynchronously. You must wait for element n-1 server's response before processing element n.

3) Implement a difference function that subtracts one list from another.

Examples:

```
difference([1,2], [1]) => [2]
```

```
difference([1,2,2,2,3], [2]) => [1,3]
```

4) Find out which one of the given numbers differs from the others.

Find the one that is different in evenness and return its position NOT the number

itself.

Examples:

`evenness("2 4 7 8 10") => 3` // Third number is odd (7), the rest are even

`evenness("1 4 1 1") => 2` // Second number is even (2), the rest are odd

6) How would you upload a file to a server without reloading the page? Explain it as much as detail as possible.

7) Have you ever used JavaScript templating, and if so, what/how?

8) Describe event bubbling.

## **jQuery**

9) Explain “chaining”.

10) What is the difference between `$` and `$.fn`? Or just what is `$.fn`.

11) Using the following API endpoint:

<https://api.mercadolibre.com/sites/MLA/search/>

Create a search input that allows searching for any given product and shows a list of 10 items ordered by price from lowest to highest.

Please make sure that what you do looks similar to the provided mockup (ex.png)

You are free to use any library that you feel it might help you getting this exercise done; jQuery, lodash, bootstrap, just to name a few.

## **CSS**

12) Describe what a “reset” CSS file does and how it’s useful.

13) Explain CSS sprites, and how you would implement them on a page or site.

14) What are the different ways to visually hidden content (and make it available only for screenreaders)?

15) Explain how a browser determines what elements match a CSS selector