



EF Coding Assessment

You are asked to create a function that will retrieve some data from an external RESTful API.

The endpoint you need to query is <https://jsonplaceholder.typicode.com>

The resource we want to get is “posts” and it’s indexed with an incremental id starting from 1, which you can use to access a single document in the collection.

Please use only ECMAScript features and no other libraries.

The function you need to create should return just the title property of the object you will get.

I.e.: GET <https://jsonplaceholder.typicode.com/posts/1> will return:

```
{
  "userId": 1,
  "id": 1,
  "title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
  "body": "quia et suscipit suscipit recusandae consequuntur expedita et cum reprehenderit molestiae ut ut quas totam nostrum rerum est autem sunt rem eveniet architecto",
}
```

As requested, we are only interested in the title property, wrapped in a promise.
Please provide the code of the requested function.



EF Coding Assessment

Given the array Numbers that consists of X integers and always in a non-decreasing order. Find if there's any “most-prominent” number, being this number the number that occurs more than half the length of the array.

Your implementation should return -1 if there is no “most-prominent” integer.

For example, given array A consisting of ten elements such that:

```
Numbers[0] = 3
Numbers[1] = 3
Numbers[2] = 3
Numbers[3] = 3
Numbers[4] = 3
Numbers[5] = 5
Numbers[6] = 7
Numbers[7] = 7
Numbers[8] = 8
Numbers[9] = 9
```

the function should return -1, because the value that occurs most frequently in the array, 3, occurs five times, and 5 is not greater than half of 10.

Given array A consisting of five elements such that:

```
Numbers[0] = 12
Numbers[1] = 12
Numbers[2] = 12
Numbers[3] = 12
Numbers[4] = 53
```

the function should return 12.

Assume that:

- X is an integer within the range [1..100,000];
- each element of array Numbers is an integer within the range [0..2,147,483,647];
- array Numbers is sorted in non-decreasing order.



EF Coding Assessment

Print the numbers from 1 to n with a delay of 1 second each.

We came up with this piece of code, but for some reasons it's printing n times "undefined". Can you tell why and how you would write the code instead?

```
var messages = [1, 2, 3, 4, 5];
for (var i = 0; i < messages.length; i++) {
  setTimeout(function() {
    console.log(messages[i]);
  }, 1000 * i);
}
```



EF Coding Assessment

Create a new Landing Page that will be available in 50+ countries.

We want to create a new landing page that will be available in 50+ countries.

The page consists of several sections, with text paragraphs and images.

The same design of the page is shared across all languages, but the content itself will be different. You can assume that the length of the labels will be the same for all languages and also image resolution.

Unfortunately, we don't have any backend service available to get the translations and we'll only be able to host static assets (html, js, css and images).

In addition, we would like to focus on minimizing the amount of work the developers need to do, but also we need to keep an eye on page performances.

How would you face this challenge? Which technologies would you use and why?