



NodeJS Beginner - Week 9

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Section 1

Recap

1 - What is the purpose of a default case in a switch statement? *

1 point

- ☒ To provide a fallback option when none of the other cases match
- ☐ To terminate the execution of the switch statement
- ☐ To provide a condition for the switch statement
- ☐ To specify the type of the expression

2 - Choose the type of "this" binding that occurs in line 10 *

1 point

```
1 function Counter(init) {
2   ...
3   this.x = init;
4 }
5 Counter.prototype.inc = function() {
6   this.x++;
7 }
8
9 let c = new Counter(0);
10 c.inc();
```

- ☐ Default binding
- ☒ Implicit binding
- ☐ Explicit binding
- ☐ none of the above

3 - Waleed has the Imparnumerophobia, which means he fears the odd numbers. Waleed asked you to design a program for him that modifies the strings by replacing any odd number with the word "BEEP". Help him implement this program using your knowledge in regular expressions.

* 3 points

Example:
"I have 12 cars, 11 of which are 89 years old"
Should be
"I have 12 cars, BEEP of which are BEEP years old"

Put your solution on <https://ideone.com/> or codepen.io and paste the link below.

<https://ideone.com/EyjTwh>

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Section 2

4 - Choose all the correct statements about JSON. * 1 point

- ☒ JSON data is represented as string; so you need to convert it to JS object to work with it
- ☐ JSON is a programming language

☐ JSON is can only be used inside JavaScript

☒ JSON is used to exchange data across different systems

5 - Which method is used to convert data from JS object to JSON / from JSON to JavaScript object? * 1 point

☐ json() / object()

☒ JSON.stringify() / JSON.parse()

☐ JSON.parse() / JSON.stringify()

☐ JSON.encode() / JSON.decode()

6 - The fetch API is based on promises * 1 point

☒ True

☐ False

7 - Explain why response.json() is preceded by the "await" keyword * 1 point

```
1 let get = async (url) => {
2     let response = await fetch(url);
3     let data = await response.json();
4     return data;
5 }
6
```

The await keyword is used to "Wait" until the promise is either resolved, or rejected.

8 - Choose the correct category for each of the following JS component * 5 points

	Core JavaScript	WebAPIs
setTimeout / setInterval	<input type="radio"/>	<input checked="" type="radio"/>
Arrays	<input checked="" type="radio"/>	<input type="radio"/>
console	<input checked="" type="radio"/>	<input type="radio"/>
Promises	<input type="radio"/>	<input checked="" type="radio"/>
fetch api	<input type="radio"/>	<input checked="" type="radio"/>

9 - Before proceeding, read [Star Wars API Documentation](#) * 1 point

What is the convenient URL for fetching all Star Wars planets?

☐ <https://swapi.dev/api/>

☒ <https://swapi.dev/api/planets/>

☐ <https://swapi.dev/api/planets/schema/>

☐ <https://swapi.dev/api/planets/1/>

10 - Using [Star Wars API Documentation](#) * 1 point

what is the output of this code?

```
fetch('https://swapi.dev/api/people/7/')
.then(res => res.json())
.then(data => console.log(data.hair_color))
```

☐ blond

☐ light

☒ brown

☐ black

11 - What is the return type of this function? * 1 point

```
2 const fun = async () => {
3     return "Hey there!";
4 }
```

☐ string

☐ object

☒ promise

☐ undefined

12 - Choose the method matching the following description: * 1 point

It takes a list of promises and return a single promise
the returned promise fulfills only when all input promises fulfull, it reject with the first rejection.

☒ Promise.all()

☐ Promise.any()

☐ Promise.allSettled()

☐ Promise.race()

13 - Choose all answers that apply: * 1 point

Which of the following are best practices to avoid JavaScript callback hell?

☒ Using promise chaining

☐ Skipping the implementation of error handlers

☒ Using async/await syntax for asynchronous callbacks

☐ Using setTimeout

14 - The code inside the "finally" block runs only when some error happens * 1 point

☐ True

☒ False

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Coding Task

15 - Solve the following 4 problems and paste the link of your solution. * 5 points

1. [Add Two Promises](#)
2. [Sleep](#)
3. [Timeout Cancellation](#)
4. [Interval Cancellation](#)

Bonus ✨

[Promise Time Limit](#)

<https://leetcode.com/problems/add-two-promises/submissions/1622407278>
<https://leetcode.com/problems/sleep/submissions/1622775535>
<https://leetcode.com/problems/timeout-cancellation/submissions/1622923043>
<https://leetcode.com/problems/interval-cancellation/submissions/1623091718>
<https://leetcode.com/problems/promise-time-limit/submissions/1623187220>

16 - One day Seif visited the fake store to buy some fake products. * 5 points

Seif bought 3 items of the product with id 1,
4 items of the product with id 4
and 5 items of the product with id 3

Seif is bad at math, can you help him calculate the total price of the products?

Use the [Fake Store API](#) to solve the problem and upload your solution to GitHub.

```
const purchases = {
  1: 3,
  4: 4,
  3: 5
}

// first solution
// let sum = 0;
// for(let [id, quantity] of Object.entries(purchases)){
//   await fetch(`https://fakestoreapi.com/products/${id}`)
//   .then(response => response.json())
//   .then(products => {
//     sum += products.price * quantity;
//   })
//   .catch(err => console.log(err));
// }
// console.log(sum);

// second solution
// let sum = 0;
// fetch(`https://fakestoreapi.com/products`)
// .then(response => response.json())
// .then(products => {
//   for(let product of products){
//     if(purchases.hasOwnProperty(product.id))
//       sum += product.price * purchases[product.id];
//   }
// })
// .catch(err => console.log(err))
// .finally(() => console.log(sum));

// third solution
async function calculateTotal() {
  const res = await fetch("https://fakestoreapi.com/products/");
  if(!res.ok){
    throw new Error(`Failed to fetch products: ${res.status} ${res.statusText}`);
  }
  const products = await res.json();

  const wanted = products.filter(p => Object.hasOwn(purchases, p.id))

  const total = wanted.reduce((sum, p) => sum + p.price * purchases[p.id], 0);
  console.log(total);
}

calculateTotal()
.catch((err) => console.log(err));
```

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