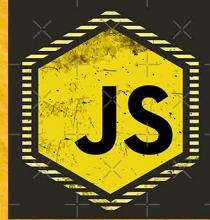


CODING CHALLENGES

IN



JAVASCRIPT



200+ STRUCTURED CHALLENGES

TABLE OF CONTENTS

00	Pre-Read Before
01	Numbers
02	String
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NUMBERS

1 2 3 4

QUESTIONS

LINK

Convert a string to a valid number



Round a number to the nearest integer



Working with Large Numbers: Formatting and Display



Optimizing Price Calculation with Bulk Discount



Calculating the Time Remaining for a Sale



Generating a Random Number in a Range



Converting a Number to Binary



Calculate Electricity Bill



cons str = "I am string"

STRING



QUESTIONS

LINK

Valid Password



Count word Occurance



Keyword check



Valid email



cleanUp extra spaces



Convert URLs to Links



URL Generation



File Extension validation



Case-Insensitive Search



OPERATORS

QUESTIONS

LINK

Calculate Total Price with Tax



Convert Fahrenheit to Celsius



Calculate Tip



Calculate Age



Calculate Simple Interest



Calculate Annual Salary from Hourly Wage



Calculate Discounted Price



Calculate Time Difference in Hours



Calculate Distance Between



Calculate Average Speed



TYPE CONVERSION

```
10 === 10 // true
```

QUESTIONS

LINK

Age Validation



LINKS

Phone Number Validation



LINKS

API Response



LINKS

Storing Objects in Local Storage



LINKS

Converting a Date Object to String



LINKS

Displaying a List of Users



LINKS



MAPS



QUESTIONS

LINK

Find Events Within a Latitude and Longitude Range



Group Events by City



Event Planning



Check if a City is in the Northern Hemisphere

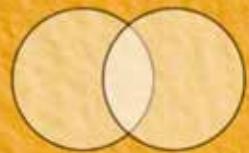


Count Events by Date



Find Events Happening Now





SETS

{ 1, 2, 3, 4 }

QUESTIONS

LINK

Add Unique Elements to a Set



Remove an Element from a Set



Check if a Set Contains an Element



Count Elements in a Set



Convert a Set to an Array



Find the Union of Two Sets



Find the Intersection of Two Sets



Find the difference between two sets



ARRAYS



QUESTIONS

LINK

Search Bar Suggestions



Grouping Blog Posts by Categories



Sorting Products



Shopping Cart Total



Tag Frequency



Finding Common Wishlist Items



Removing Duplicate Emails



Highlighting Most Searched Products



Chunking User Data



Filtering Products by Price





QUESTIONS

LINK

User Profile management



Shopping cart System



Storing Contact Information



Storing a Simple Book



Storing Favorite Color



Simple Counter



Weather App (Data Representation)



Employee Directory System



Task manangement (To do list)



CONDITIONALS

QUESTIONS

LINK

Access Control System



Checking if a Number is Positive, Negative, or Zero



Determining Discount Based on Age or Membership



Form Validation



Checking if a User is Logged In



Checking if a Day is a Weekend



Temperature-Based Clothing Advice



Evaluating Exam Grades



Checking Weather for an Outdoor Activity



Simple Voting Eligibility Check



TERNARY

condition

- ? code to execute if true
- : code to execute if false

QUESTIONS

LINK

Determine Pass or Fail



LINKS

Check Eligibility for Voting



LINKS

Check User Login Status



LINKS

Button State Based on Form Completion



LINKS

Display Product Availability



LINKS

Dynamic Navigation Based on Role



LINKS

Session Timeout Warning



LINKS

Display File Upload Status



LINKS

Determine Shipping Cost



LINKS

Password Strength Checker



LINKS

LOOPS



QUESTIONS

LINK

Calculating Total Price of Items in a Cart



LINKS

quiz result Score calculation



LINKS

Filter Products Based on Availability and Price



LINKS

Generating a List of Random Numbers



LINKS

Counting Down Timer (Countdown)



LINKS

Summing Numbers in an Array



LINKS

Regular Functions

function () {

QUESTIONS

LINK

API Rate Limiting



LINKS

Inventory Stock Checker



LINKS

Secure Password Generator



LINKS

Email Obfuscator



LINKS

Fraud Detection



LINKS

Product Recommendation Engine



LINKS

Data Sanitizer



LINKS

Coupon Expiry Checker



LINKS

Booking Slot Validator



LINKS

Download Speed Calculator



LINKS

ARROW FUNCTION

`() => {}`

QUESTIONS

LINK

Sum of Two Numbers



LINKS

Find the Square of a Number



LINKS

Check if a Number is Even



LINKS

Filter Odd Numbers from an Array



LINKS

Convert Celsius to Fahrenheit



LINKS

Enumerate a Map



LINKS

Some other
code

RECURSIVE FUNCTIONS

Recursive
method

QUESTIONS

Render Navigation menu

LINK



Parsing Nested Comments

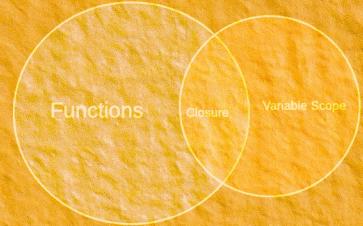


Array Traversal



Generating Combinations





CLOSURE

QUESTIONS

LINK

User Session Management



LINKS

Real-Time Analytics Tracker



LINKS

Dropdown State Manager



LINKS

Secure Payment Manager



LINKS

Dynamic Permission System



LINKS

Notification Manager



LINKS

Dynamic Form Field Validation



LINKS

Shopping Cart Manager



LINKS

Auto-Increment ID Generator



LINKS

Live Chat Manager



LINKS

f(a, b, c)

( ) →  

CURRYING

Currying

 $f = a \Rightarrow b \Rightarrow c \Rightarrow \text{value};$

f(a)(b)(c)

 →  →  

QUESTIONS

LINK

Add Two Numbers



LINKS

Multiply Three Numbers



LINKS

Calculate Power



LINKS

String Concatenation



LINKS

Subtract Two Numbers

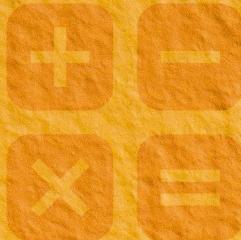


LINKS

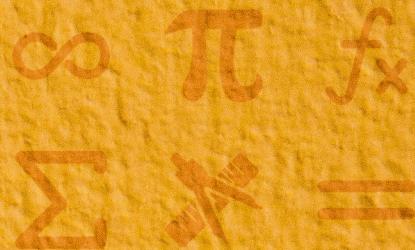
Calculate Final Price After Discount and Tax



LINKS



MATH



QUESTIONS

Find the Factorial of a Number

LINK



LINKS

Find the Greatest Common Divisor (GCD)



LINKS

Calculate the Square Root of a Number



LINKS

Find the Power of a Number



LINKS

Check if a Number is Prime



LINKS

Find the Least Common Multiple (LCM)



LINKS



DATE

QUESTIONS

LINK

Get Current Date and Time



LINKS

Get Specific Date and Time



LINKS

Get Current Year, Month, Date



LINKS

Format Date as a String



LINKS

Get Day of the Week



LINKS

Add Days to a Date



LINKS

Subtract Days from a Date



LINKS

Compare Dates



LINKS

Convert Date to Timestamp (Unix Time)



LINKS

Get Time Difference Between Two Dates



LINKS

const regex1 = new RegExp('pattern');

REGEX

QUESTIONS

LINK

Check if an Email is Valid



LINKS

Find Phone Numbers in Text



LINKS

Get Query Parameters from a Link



LINKS

Check if a Date is in the Right Format



LINKS

Validate an IP Address



LINKS

Find All Hashtags in a Text



LINKS

Find HTML Tags



LINKS

Extract the Domain Name from a URL

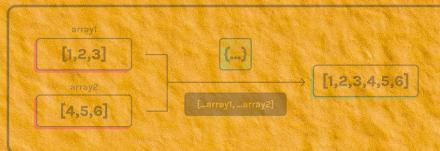


LINKS

Find Hex Color Codes



LINKS



SPREAD

QUESTIONS

Merge Two Arrays

LINK



LINKS

Clone an Object



LINKS

Add Elements to an Array



LINKS

Combine Two Objects



LINKS

Remove Duplicates from an Array



LINKS

Split an Object into Two Objects



LINKS

{....}

Coding with REST API



QUESTIONS

LINK

Sum of Numbers



LINKS

Filter Even Numbers



LINKS

Group Students by Class



LINKS

Dynamic Product Builder



LINKS

Exclude Specific Keys from Object



LINKS

Group Arguments by Type



LINKS

Combine Multiple Sets of Data



LINKS

Extract Specific Items from Array



LINKS

Dynamic Object Cloner



LINKS

Aggregate Scores for Users



LINKS

DESTRUCTURING

QUESTIONS

LINK

Extract Values from an Array



LINKS

Swap Two Variables



LINKS

Extract Properties from an Object



LINKS

Default Values in Destructuring



LINKS

Nested Object Destructuring



LINKS

Rest Operator in Array Destructuring



LINKS

Function Parameter Destructuring



LINKS

CONSTRUCTOR FUNCTION

Constructor Pattern



QUESTIONS

ChatMessage Constructor

LINK



LINKS

Real-Time Voting System

LINK



LINKS

Multi-Language Translator

LINK



LINKS

Notification Constructor with Priority

LINK



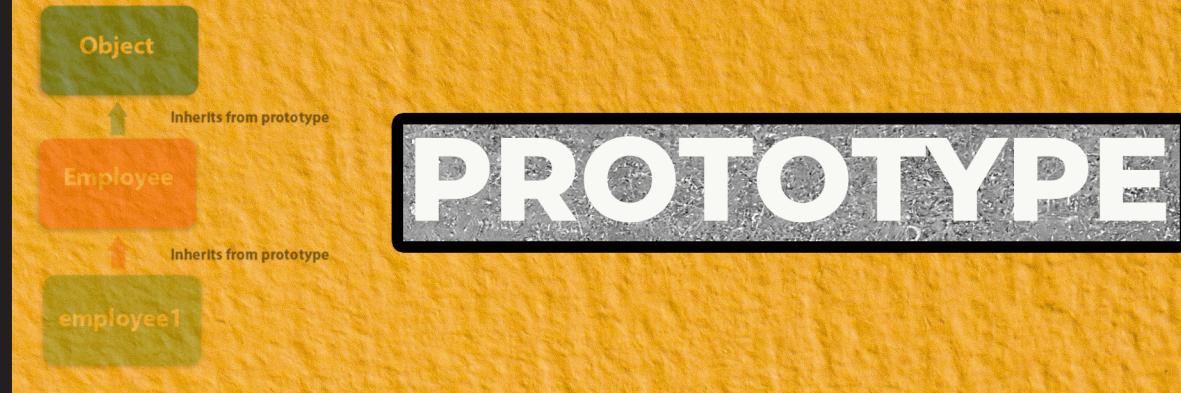
LINKS

Multi-Level Dropdown Menu

LINK



LINKS



QUESTIONS

LINK

Vehical Management System



LINKS

Creating a Base Shape Class



LINKS

User Authentication System



LINKS

Timer System



LINKS

Inventory System



LINKS

Creating a Simple Calculator



LINKS

ERROR HANDLING

QUESTIONS

LINK

Handle Division by Zero



LINKS

Handle Timeout in API Requests



LINKS

Validate URL Format



LINKS

Catch DOM Manipulation Errors



LINKS

Validate Form Inputs



LINKS

Prevent Infinite Loops



LINKS

Handle Cookie Errors



LINKS

Validate Email Format



LINKS

Handle Null Values



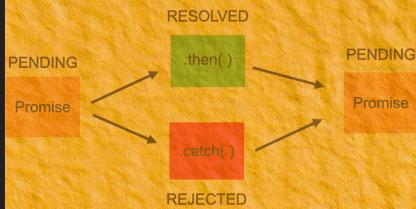
LINKS

Validate Array Index



LINKS

PROMISES



QUESTIONS

LINK

Quiz Timeout



LINKS

Promise Chain Calculator



LINKS

Online Food Order Status



LINKS

Flight Booking System



LINKS

File Upload Simulation



LINKS

Online Movie Streaming



LINKS

FETCH API

QUESTIONS

Fetch Data from API

LINK



LINKS

Fetch with Query Parameters

Cancel Fetch Request

Fetch and Update DOM

Fetch and Cache Data



LINKS



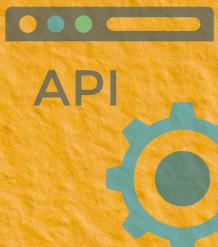
LINKS



LINKS



LINKS



BROWSER APIs

QUESTIONS

LINK

Save User Preferences with LocalStorage



LINKS

Simple Geolocation Example



LINKS

Show Notifications to Users



LINKS

Clipboard Copy Functionality



LINKS

Save User Data in sessionStorage



LINKS

Change URL Without Page Reload (History API)



LINKS

Simple Countdown Timer Using setInterval



LINKS

Alert on Window Resize



LINKS

Detect If User is Offline/Online



LINKS

TIMER FUNCTIONS

00:00:31

Start **Stop** **Reset**

QUESTIONS

Auto-Save Function

LINK



LINKS

Slideshow (Image Carousel)



LINKS

Displaying Notifications (Delayed Alert)



LINKS

Simple Random Number Generator (with setInterval)



LINKS

Simple Stopwatch



LINKS

Show a Welcome Message After a Delay



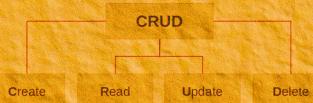
LINKS

Counting Seconds



LINKS

DOM - CRUD ELEMENTS



QUESTIONS

Add a New Item to a List

LINK



LINKS

Delete All Items from a List



LINKS

Edit a Specific List Item



LINKS

Live Search with Dynamic Results



LINKS

Collapsible Sidebar



LINKS

Auto-Save Form Data



LINKS

Copy to Clipboard



LINKS

Accordion Menu



LINKS

Add Multiple Items to a List



LINKS

Replace All List Items



LINKS

EVENTS

Javascript Event Listener



QUESTIONS

Creating a Button with a Click Event Listener in JavaScript

LINK



Mouse Hover Event - Change Color

LINK



Form Submit Event - Prevent Default

LINK



Keydown Event - Detect Keyboard Input

LINK



Change Event - Input Field Validation

LINK



Scroll Event - Show Scroll Progress

LINK



Resize Event - Adjust Layout on Window Resize

LINK



Double Click Event - Show Alert on Double Click

LINK



Focus Event - Highlight Input Field

LINK



Mouse Move Event - Show Coordinates

LINK

