



UPLOAD AVATAR

Level 4

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**JS Tile Teamwork Tactics**

...

In a board game, a piece may advance 1-6 tiles forward depending on the number rolled on a six-sided dice. If you advance your piece onto the same tile as another player's piece, both of you earn a bonus. Given you and your friend's tile number, create a function that returns if it's possible to earn a bonus when you roll t ...

conditions language\_fundamentals numbers validation

Medium

**JS Learn Lodash (2): Compact**

...

According to the lodash documentation, `_compact` creates an array with all falsey values removed. The values `false`, `null`, `0`, `""`, `undefined`, and `NaN` are falsey. Your task is to build this helper function without using lodash. You will write a function that receives an array and removes all falsey values. Examples `compact([0 ...`

arrays sorting

Medium

**JS Left Shift by Powers of Two**

...

The left shift operation is similar to multiplication by powers of two. Sample calculation using the left shift operator (`<<`):  $10 << 3 = 10 * 2^3 = 10 * 8 = 80$   $-32 << 2 = -32 * 2^2 = -32 * 4 = -128$   $5 << 2 = 5 * 2^2 = 5 * 4 = 20$  Write a function that mimics (without the use of `<<`) the left shift operator and returns the r ...

bit\_operations math numbers

Easy

**JS Right Shift by Division**

...

The right shift operation is similar to floor division by powers of two. Sample calculation using the right shift operator (`>>`):  $80 >> 3 = \text{floor}(80/2^3) = \text{floor}(80/8) = 10$   $-24 >> 2 = \text{floor}(-24/2^2) = \text{floor}(-24/4) = -6$   $-5 >> 1 = \text{floor}(-5/2^1) = \text{floor}(-5/2) = -3$  Write a function that mimics (without the use of `>>`) the right shift operator and returns the r ...

bit\_operations numbers

Medium

**JS Find the nth Tetrahedral Number**

...

A tetrahedron is a pyramid with a triangular base and three sides. A tetrahedral number is a number of items within a tetrahedron. Create a function that takes an integer `n` and returns the `n`th tetrahedral number. Alternative Text Examples `tetra(2) → 4` `tetra(5) → 35` `tetra(6) → 56` Notes There is a formula for the `n`th te ...

logic math numbers

Medium

**JS Burglary Series (04): Add its Name**

...

Given three arguments — an object `obj` of the stolen items, the pet's name and a value — return an object with that name and value in it (as key-value pairs). Examples `addName({}, "Brutus", 300) → { Brutus: 300 }` `addName({ piano: 500 }, "Brutus", 400) → { piano: 500, Brutus: 400 }` `addName({ piano: 500, stereo: 300 }, "Cal ...`

language\_fundamentals objects

Medium

**JS Which Generation Are You?**

...

Try finding your ancestors and offspring with code. Create a function that takes a number `x` and a character `y` ("m" for male, "f" for female), and returns the name of an ancestor (m/f) or descendant (m/f). If the number is negative, return the related ancestor. If positive, return the related descendant. You are generation ...

conditions logic objects strings

Medium

### JS Perimeters with a Catch

...

Write a function that takes a number and returns the perimeter of either a circle or a square. The input will be in the form (letter l, number num) where the letter will be either "s" for square, or "c" for circle, and the number will be the side of the square or the radius of the circle. Use the following formulas: Perime ...

conditions geometry logic math numbers

Medium

### JS RegEx Exercise 1: Find the Time

...

The time has a format: hours:minutes. Both hours and minutes has two digits, like 09:00. Make a regexp to find time in the string: Breakfast at 09:00 in the room 123:456. In this task there's no need to check time correctness yet, so 25:99 can also be a valid result. The regexp should not match 123:456. Notes The solution ...

regex

Easy

### JS Triangular Number Sequence

...

This Triangular Number Sequence is generated from a pattern of dots that form a triangle. The first 5 numbers of the sequence, or dots, are: 1, 3, 6, 10, 15 This means that the first triangle has just one dot, the second one has three dots, the third one has 6 dots and so on. Write a function that returns the number of do ...

algebra algorithms loops math

Medium

### JS Converting Objects to Arrays

...

Write a function that converts an object into an array, where each element represents a key-value pair in the form of an array. Examples toArray({ a: 1, b: 2 }) → [["a", 1], ["b", 2]] toArray({ shrimp: 15, tots: 12 }) → [["shrimp", 15], ["tots", 12]] toArray({}) → [] Notes Return an empty array if the object is empty.

arrays language\_fundamentals objects

Medium

### JS Seven Boom!

...

Create a function that takes an array of numbers and return "Boom!" if the digit 7 appears in the array. Otherwise, return "there is no 7 in the array". Examples sevenBoom([1, 2, 3, 4, 5, 6, 7]) → "Boom!" // 7 contains the number seven. sevenBoom([8, 6, 33, 100]) → "there is no 7 in the array" // None of the items contain ...

arrays loops numbers regex

Hard

### JS A Redundant Function

...

Write a function redundant that takes in a string str and returns a function that returns str. Examples const f1 = redundant("apple") f1() → "apple" const f2 = redundant("pear") f2() → "pear" const f3 = redundant("") f3() → "" Notes Your function should return a function, not a string.

closures functional\_programming language\_fundamentals

Medium

### JS How Edabit Works

...

This is an introduction to how challenges on Edabit work. In the Code tab above you'll see a starter function that looks like this: function hello() { } All you have to do is type return "hello edabit.com" between the curly braces { } and then click the Check button. If you did this correctly, the button will turn red and ...

language\_fundamentals strings

Very Easy

### JS Find the Smallest and Biggest Numbers

...

Create a function that takes an array of numbers and return both the minimum and maximum numbers, in that order. Examples minMax([1, 2, 3, 4, 5]) → [1, 5] minMax([2334454, 5]) → [5, 2334454] minMax([1]) → [1, 1] Notes All test arrays will have at least one element and are valid.

arrays language\_fundamentals numbers

Easy