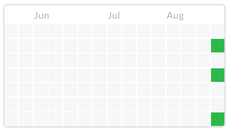
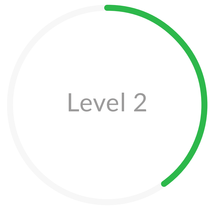
JavaScript

Medium

Tags (optional)

HIDE COMPLETE





Watch a quick demo on how Edabit works. WATCH DEMO

How Much is True?
Create a function which returns the number of true values there are in an array. Examples countTrue([true, false, false, true, false]) ➞ 2 countTrue([false, false, false, false]) ➞ 0 countTrue([]) ➞ 0 Notes Return 0 if given an empty array. All array items are of the type bool (true or false).
arrays language_fundamentals Medium

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

RegEx Exercise: An empty string
If you've completed this RegEx series from I to XXII then you have been exposed to all of MDN's documentation on regular expressions special characters. You can check my Collections under Basic Reg Ex in my profile if you missed any. This next part of the series is to help solidify what you've learned. In order to save time ...
regex Medium

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 ...
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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 = floor(80/2^3) = floor(80/8) = 10 -24 >> 2 = floor(-24/2^2) = floor(-24/4) = -6 -5 >> 1 = floor(-5/2^1) = floor(-5/2) = -3 Write a function that mimics (without the use of >>) the rig ...
bit_operations numbers Medium

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 ...
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Find Number of Digits in Number
Create a function that will return an integer number containing the amount of digits in the given integer num. Examples numofdigits(1000) ➞ 4 numofdigits(12) ➞ 2 numofdigits(1305981031) ➞ 10 numofdigits(0) ➞ 1 Notes Try to solve this challenge without using strings!
math numbers regex Medium

Burglary Series (04): Add its Name
Given three arguments — an object obj of the stolen items, the pets 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

Derivative of a Function
Create a function that takes numbers b and m as arguments and returns the derivative of the function f(x)=x^b with respect to x evaluated at x=m, where b and m are constants. Examples derivative(1, 4) ➞ 1 derivative(3, -2) ➞ 12 derivative(4, -3) ➞ -108 Notes ^ in the context of this challenge means "to the power of", al ...
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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 ...
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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 nth tetrahedral number. Alternative Text Examples tetra(2) ➞ 4 tetra(5) ➞ 35 tetra(6) ➞ 56 Notes There is a formula for the nth te ...
logic math numbers Medium

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 ...
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Function Factory
Create a function that takes a "base number" as an argument. This function should return another function which takes a new argument, and returns the sum of the "base number" and the new argument. Please check the examples below for a clearer representation of the behavior expected. Examples // Calling makePlusFunction(5) ...
closures functional_programming higher_order_functions Medium

Returning an "Add" Function
Given a number, n, return a function which adds n to the number passed to it. Examples add(10)(20) ➞ 30 add(0)(20) ➞ 20 add(-30)(80) ➞ 50 Notes All numbers used in the tests will be integers (whole numbers). Returning a function from a function is a key part of understanding higher order functions (functions which operat ...
closures higher_order_functions language_fundamentals numbers Medium

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.
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Concatenate Variable Number of Input Arrays
Create a function that concatenates n input arrays, where n is variable. Examples concat([1, 2, 3], [4, 5], [6, 7]) ➞ [1, 2, 3, 4, 5, 6, 7] concat([1], [2], [3], [4], [5], [6], [7]) ➞ [1, 2, 3, 4, 5, 6, 7] concat([1, 2], [3, 4]) ➞ [1, 2, 3, 4] concat([4, 4, 4, 4]) ➞ [4, 4, 4, 4, 4] Notes Arrays should be concatenated ...
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All About Anonymous Functions: Adding Suffixes
Write a function that returns an anonymous function, which transforms its input by adding a particular suffix at the end. Examples addly = addsuffix("ly") add_ly("hopeless") ➞ "hopelessly" add_ly("total") ➞ "totally" addless = addsuffix("less") add_less("fear") ➞ "fearless" add_less("ruth") ➞ "ruthless" Notes N/A
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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

Make a Circle with OOP
Your task is to create a Circle constructor that creates a circle with a radius provided by an argument. The circles constructed must have two methods getArea() (PI*r^2) and getPerimeter() (2*PI*r) which give both respective areas and perimeter (circumference). For help with this class, I have provided you with a Rectangle ...
classes geometry math objects Medium

Convenience Store
Given a total due and an array representing the amount of change in your pocket, determine whether or not you are able to pay for the item. Change will always be represented in the following order: quarters, dimes, nickels, pennies. To illustrate: changeEnough([25, 20, 5, 0], 4.25) should yield true, since having 25 quarter ...
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