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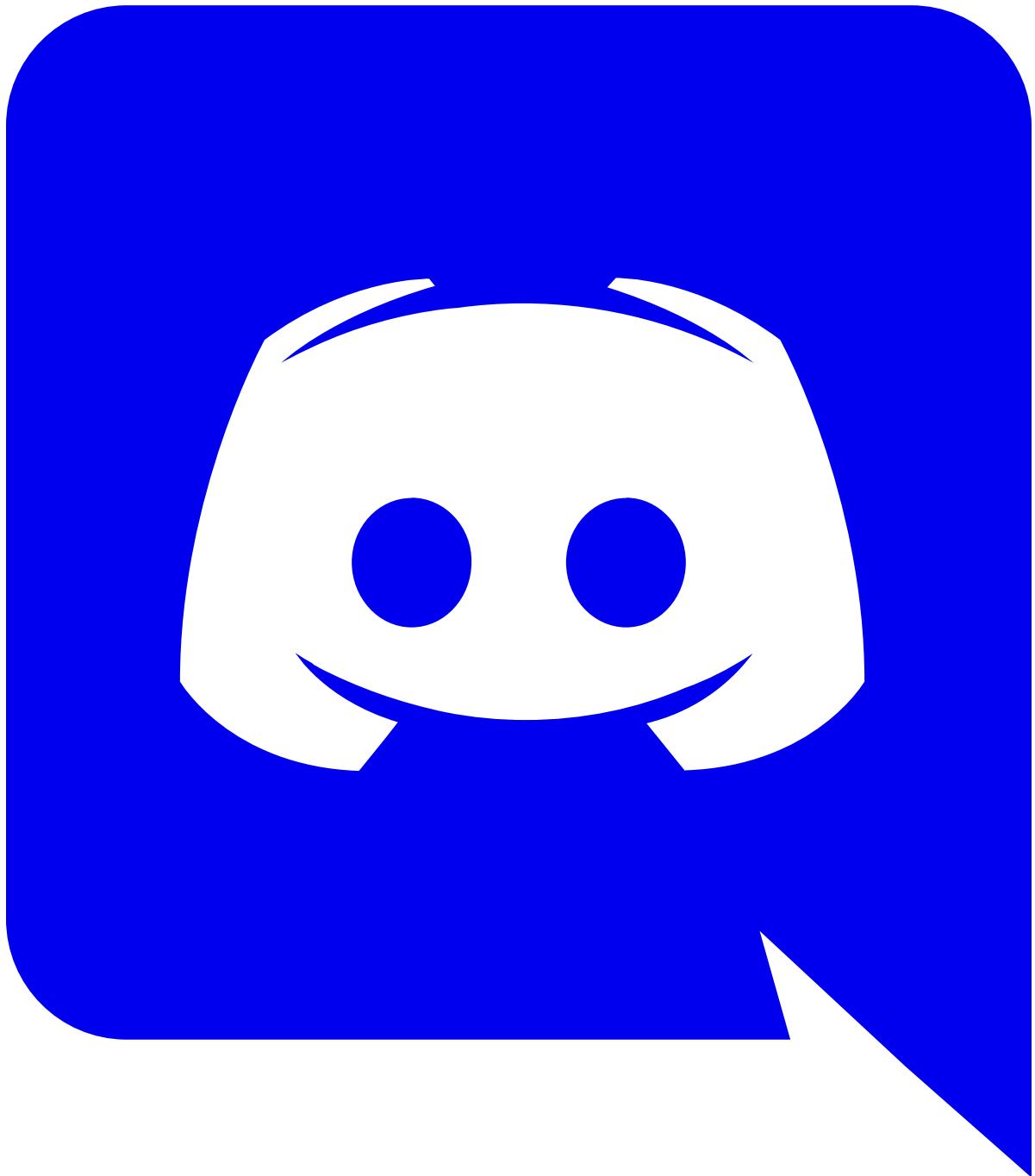
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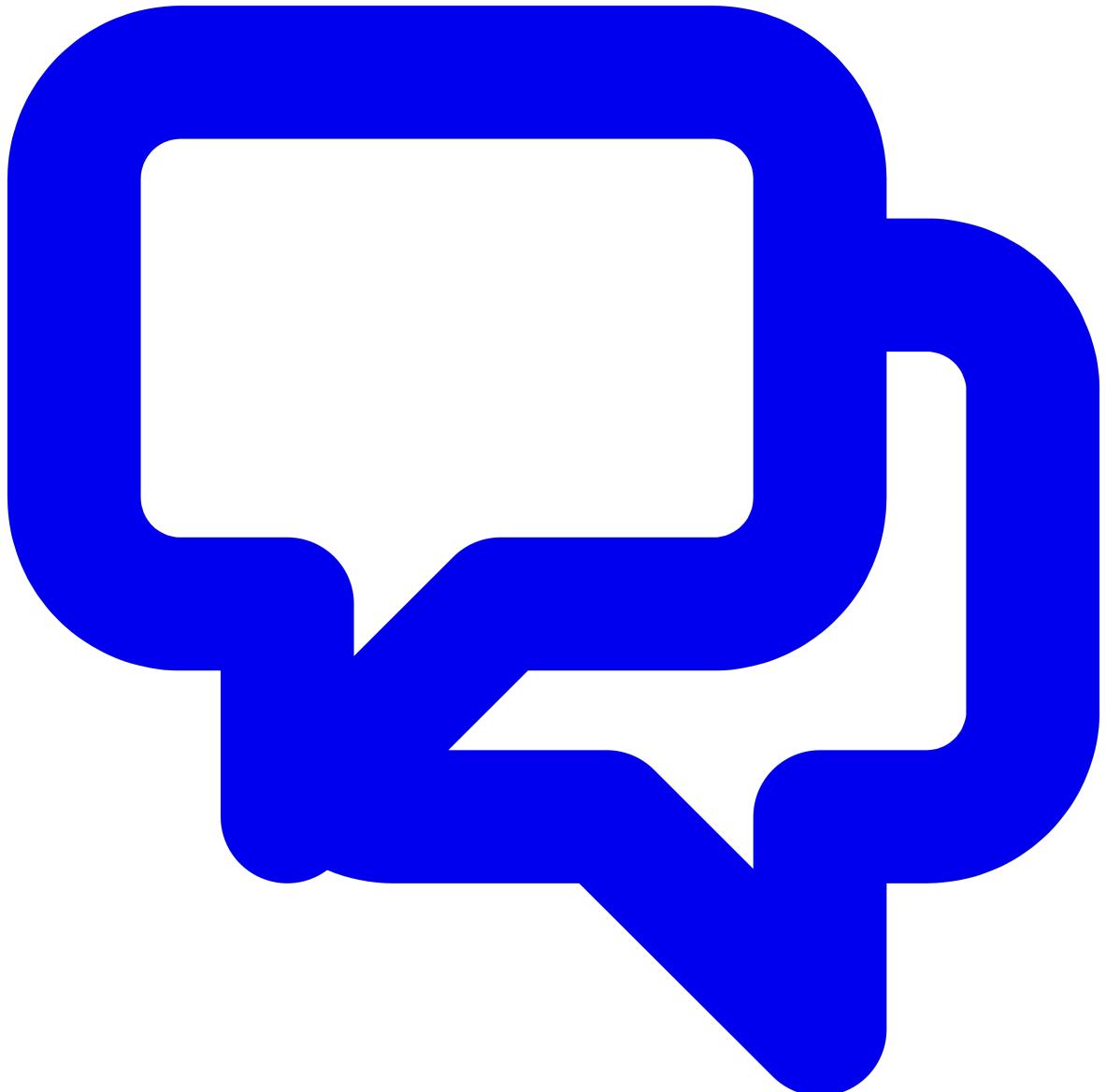


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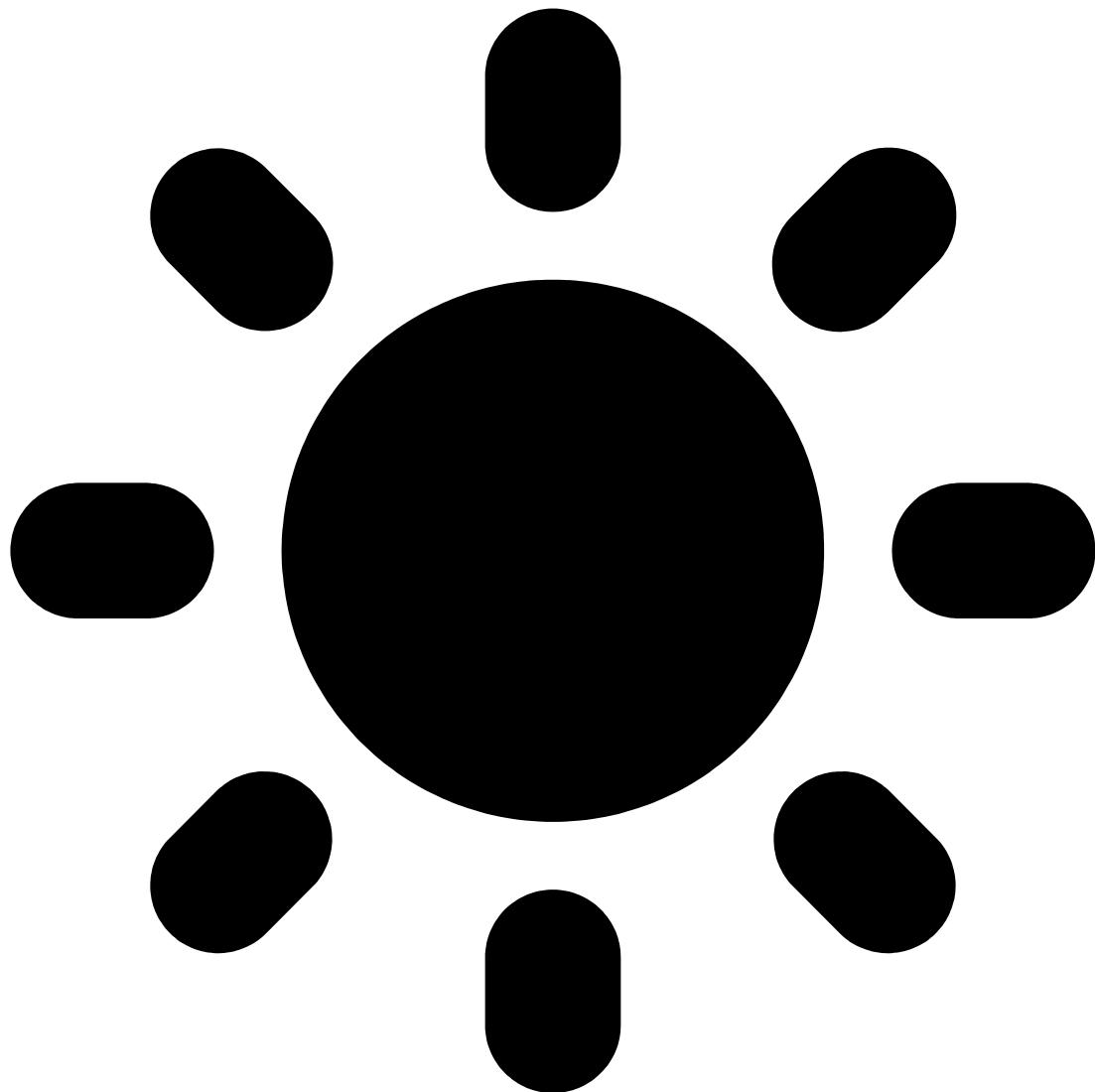
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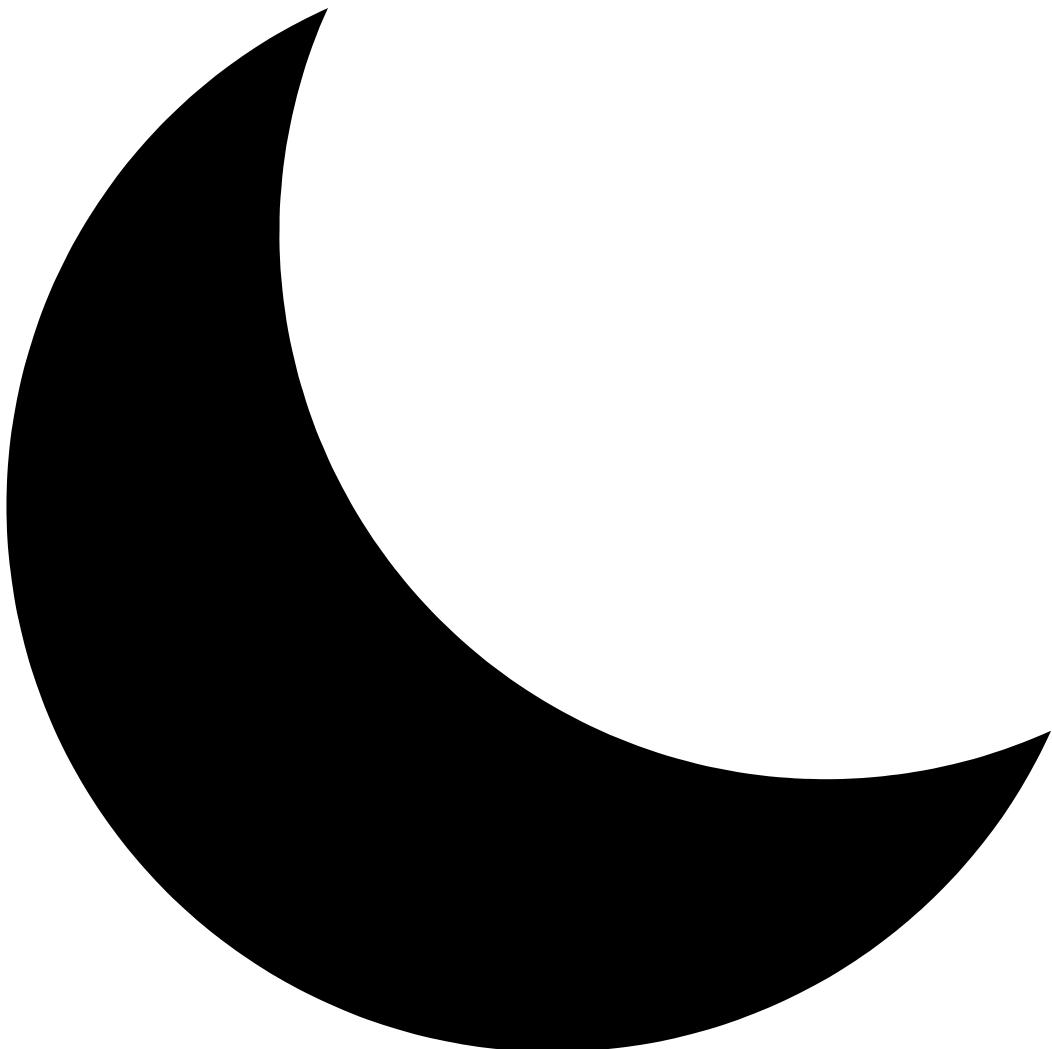


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Name: André Terceiro

Clan: None

Skills: ruby, php, python, javascript, .net, groovy

Member Since: Jun 2015

Last Seen: Apr 2024

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Ruby: [Finding people with a speeding record](#)

```
def redistribute_wealth(wealth):
    total_elements = len(wealth)
    mean = sum(wealth) / total_elements
    for index, item in enumerate(wealth):
        wealth[index] = mean
```

[Return a sorted list of objects](#)

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8 kyu [7 kyu](#)

[I love you, a little, a lot, passionately ... not at all](#)

[Simple Fun #144: Distinct Digit Year](#)

Ruby: [6 kyu](#)

```
def how_much_i_love_you(nb_petals)
    puts nb_petals
    puts nb_petals % 6
    rounded_petals = nb_petals % 6
    while rounded_petals > 6
        rounded_petals = Days in the year rounded_petals
    end
    if rounded_petals == 1
        return "I love you"
    elsif rounded_petals == 2
        return "a little"
    elsif rounded_petals == 3
        return "a lot"
    elsif rounded_petals == 4
        return "passionately"
    elsif rounded_petals == 5
        return "madly"
    elsif rounded_petals == 6 or rounded_petals == 0
        return "not at all"
    end
```

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Ruby: [Users with More Than 2 Videos Watched](#)

```
def weird_case_string
    ret = ""
    cont = 0
    string.each_char { |char|
        if char == "."
            ret = ret + 7 kyu
            cont = 0
        else
            Order Ratio for Each Product
            if cont % 2 == 0
                ret = ret + char.upcase
            else
                ret = ret + char.downcase
            end
            cont = cont + 1
        end
    }
    ret = Rock, Paper, Scissors
end
```

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7 kyu

[Array comparison Eligibility: part 1](#)

Ruby: [6 kyu](#)

```
def match_arrays(v, r)
    count = 0
    v.each { |item|
        count = count + 1 if r.include? item
    }
    Sentences with Functions
    count
end
```

- [6 kyu](#)

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7 kyu

[From A to Z Youngest Team Members](#)JavaScript: ○ [Beta](#)

[Car Depreciation](#)

```
function gimmeTheLetters(sp) {
  let start = sp.charCodeAt(0);
  let end = sp.charCodeAt(2);
  let ret = "";
  let char Sort rectangles and circles by area II
  for (char = start; char <= end ; char++) {
    ret += String.fromCharCode(char);
  } Persistent Bugger
  return ret; 5 kyu
}
```

- 11 days ago [Calculate age in years](#)
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7 kyu [Sorted hashes](#)[Ordering the words!](#) 8 kyuRuby: [Training JS #18: Methods of String object--concat\(\) split\(\) and its good friend join\(\)](#)

```
def orderWords(s)7 kyu
  return "Invalid String!" if s.nil? or s.empty?
  s.split(""Networking 01/2: Identify the IPv4 address Class
end
```

- 12 days ago [8 kyu](#)
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7 kyu [My Phone Numbers!](#)Ruby: ○ [7 kyu](#)

[Histogram - H1](#)

```
def intDiff(arr, n)
  r = 0
  arr.each_with_index{|i, index1|
    arr.each_with_index{|j, index2|
      break An index of a index
      next if index1 == index2
      oif i - j 7 kyu n || j - i == n
      r = r + 1
    }
  } Mysterious Singularity Numbers
  r 6 kyu
end
```

[Backwards Read Primes](#)

- 13 days ago [13 kyu](#)
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[More Zeros than Ones](#)

7 kyu

[Without the letter 'B' Beta](#)[Calculate Serve Point Win Percentage in Tennis](#)JavaScript: ○ [6 kyu](#)

```
function findE(str){
  if (str == null) return null;
  if (str.toLowerCase() === "") return "";
  let totalMaiusculos = str.split("E").length - 1;
  let totalMinusculos = str.split("e").length - 1;
  let total = totalMaiusculos + totalMinusculos;
  if (total Find the combination there is no "e".);
  return String(total);
} 7 kyu
```

- 7 years ago [Merge overlapping strings](#)
- [Refactor](#)

[7 kyu](#)[Simple Fun #201 First Reverse Trace of a word in a string!](#)Ruby: ○ [7 kyu](#)

[Trim method](#)

```
def firstReverseTray(arr)
  return [] if arr.length == 0
  tmp =arr\[0\] 7 kyu
  arr[0] = arr[-1]
  arr[-1] Without expression!
  arr
end Beta
```

- 15 days ago [Sack my Sum](#)
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7 kyu

[Product of 12 Sum Sums](#)Ruby: ○ [7 kyu](#)

[Tower Bouncing](#)  
`def max_product(a)  
 a.max(2).reduce(:*)  
end`

- 16 days ago [Odd Not Prime](#)
- [Refactor](#) [5 kyu](#)
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7 kyu [Find the unique string](#)[Sum of a nested list](#) 7 kyuRuby: [regex validation of 24 hours time.](#)

[6 kyu](#)  
`def sum_nested(lst)  
 lst.flatten.sum  
end`

- 16 days ago [Beta](#)
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- [Discuss](#) [Approximate a number as fraction](#)

7 kyu ○ [4 kyu](#)

[isEven? - Bitwise Series](#)  
[Range Extraction](#)

JavaScript: ○ [5 kyu](#)

```
var isEven = function (n) { //if n is even return true, otherwise, return false
  let binaryNumber = (n >> 0).toString(2);
  if (binaryNumber[binaryNumber.length - 1] == "0") {
    return true;
  }
  return false;
}
```

- 16 days ago [7 kyu](#)
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- [Discuss](#)
  - [6 kyu](#)

7 kyu

[Change two-dimensional array](#)JavaScript: ○ [7 kyu](#)

[Caffeine Script](#)  
`function matrix(array) {
 let i = 0;
 while (i < array.length) {
 if (array[i][i] % 2 === 0) {
 array[i][i] = 1;
 } else {
 array[i][i] = 0;
 }
 i = i + 1;
 }
 return array;
}`

- 17 days ago [7 kyu](#)
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- [Discuss](#) [valid identifier?](#)

7 kyu ○ [6 kyu](#)[Unique Sum](#) [Sort odd and even numbers in different order](#)Ruby: ○ [7 kyu](#)

```
def unique_sum(lst)
  ret = lst.uniq.sum
  lst.count == 0 ? nil : ret
end
```

- last month [Decimal Time Conversion](#)
- [Refactor](#) [6 kyu](#)
- [Discuss](#)

7 kyu [Same matrix \(2 \\* 2\)](#)[Count the Ones](#) 6 kyuRuby: [Verify if it's valid \(n x n\) Magic Square with custom rules](#)

```
def hamming_weight(x)
  x.to_s(2).gsub(/0+/, "").length
end
```

[Learning TypeScript Classes & Interfaces Getters](#)

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- [Discuss](#)

7 kyu

[Complete The Pattern #6 - Odd Ladder](#)

Ruby:

```
def pattern(n)
  ret = ""
  i = 1
  while i <= n
    ret = ret + i.to_s * i + "\n"
    i = i + 2
  end

  ret[0..-2]
end
```

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- [Refactor](#)
- [Discuss](#)

7 kyu

[Complete The Pattern #5 - Even Ladder](#)

Ruby:

```
def pattern(n)
  return "" if n <= 1

  ret = ""
  i = 0

  while i * 2 <= n
    number = i * 2
    ret += number.to_s * number + "\n"
    i = i + 1
    puts i
  end

  ret[1..999999][0..-2]
end
```

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7 kyu

[All Star Code Challenge #1](#)

Ruby:

```
def sum_ppg(player_one, player_two)
  player_one['ppg'] + player_two['ppg']
end
```

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7 kyu

[Email Address Obfuscator](#)

Ruby:

```
def obfuscate(email)
  email = email.gsub '/@/, " [at] "
  email.gsub '/\./, " [dot] "
end
```

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7 kyu

[Sentence to words](#)

JavaScript:

```
function splitSentence(s) {
  return s.split(" ");
}
```

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7 kyu

[Sort Numbers](#)

**Ruby:**

```
def solution(nums)
  return [] if nums.nil?
  nums.sort()
end

• 3 years ago
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• Discuss
```

8 kyu

[Localize The Barycenter of a Triangle](#)**Ruby:**

```
def bar_triang(p1,p2,p3)
  [((p1[0] + p2[0] + p3[0]) / 3.0).round(4), ((p1[1] + p2[1] + p3[1]) / 3.0).round(4)]
end
```

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- Discuss

7 kyu

[Slice the middle of a list backwards](#)**JavaScript:**

```
function reverseMiddle(array) {
  const length = array.length;

  let ret = [];

  for (let i in array) {
    if (length % 2 == 1) {
      if ((i == (length / 2) + 0.5) || (i == (length / 2) - 0.5) || (i == (length / 2) - 1.5)) {
        ret.unshift(array[i]);
      }
    } else {
      if ((i == length / 2) || (i == (length / 2) - 1)) {
        ret.unshift(array[i]);
      }
    }
  }

  return ret;
}
```

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- Refactor
- Discuss

7 kyu

[Resistor Color Codes](#)**Ruby:**

```
def decode_resistor_colors(bands)
  bands = bands.split(" ")
  numbers_bands = bands_to_numbers bands
  (transform_to_letters numbers_bands) + " ohms, " + numbers_bands[3]
end

def transform_to_letters number_bands
  start = (number_bands[0].to_s + number_bands[1].to_s)
  ending = (number_bands[2].to_i)

  start = start.to_f
  total = start * ending

  if (total >= 1000000)
    total = (total / 1000000)
    if total % 1 > 0
      total = total.to_f
    else
      total = total.to_i
    end
    total = total.to_s + "M"
  elsif (total >= 1000)
    total = (total / 1000)
    if total % 1 > 0
      total = total.to_f
    else
      total = total.to_i
    end
    total = total.to_s + "k"
  else
    if total % 1 > 0
      total = total.to_f
    else
      total = total.to_i
    end
    total = total.to_s
  end

  total
end
```

```

def bands_to_numbers bands
  bands[0] = get_color_value(bands[0])
  bands[1] = get_color_value(bands[1])
  bands[2] = 10 ** get_color_value(bands[2])
  bands[3] = get_color_pct(bands[3])
end

def get_color_pct color
  if color == "gold"
    return "5%"
  elsif color == "silver"
    return "10%"
  end

  return "20%"
end

def get_color_value(color)
  if color == "black"
    return 0
  elsif color == "brown"
    return 1
  elsif color == "red"
    return 2
  elsif color == "orange"
    return 3
  elsif color == "yellow"
    return 4
  elsif color == "green"
    return 5
  elsif color == "blue"
    return 6
  elsif color == "violet"
    return 7
  elsif color == "gray"
    return 8
  elsif color == "white"
    return 9
end

```

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7 kyu

[Is it a letter?](#)

Python:

```

import re
def is_it_letter(s):
    return re.match('[A-Za-z]*', s)[0] == s

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  • Discuss

```

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[Find the missing letter](#)

PHP:

```

function find_missing_letter(array $array): string {
    $letraEsperada = $array[0];
    foreach($array as $letra) {
        if ($letraEsperada != $letra) {
            return $letraEsperada;
        }
        $letraEsperada = chr(ord($letra) + 1);
    }
}

  • 7 years ago
  • Refactor
  • Discuss

```

JavaScript:

```

function findMissingLetter(array)
{
    let ordCaracterAnterior = null;
    let ordCaracterAtual = null
    for (let caracterAtual of array) {
        ordCaracterAtual = caracterAtual.charCodeAt(0);
        if (ordCaracterAnterior != null && ordCaracterAtual > ordCaracterAnterior + 1) {
            return String.fromCharCode(ordCaracterAnterior + 1);
        }
        ordCaracterAnterior = ordCaracterAtual;
    }

    return null;
}

  • 7 years ago
  • Refactor

```

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8 kyu

[Invert values](#)

Ruby:

```
def invert(list)
  r = []
  list.each do |l|
    r.push(l * -1)
  end
  r
end
```

- 2 months ago
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PHP:

```
function invert($a): array {
  $r = [];
  for ($i = 0; $i < count($a); $i++) {
    array_push($r, -1 * $a[$i]);
  }
  var_dump($r[1]);
  return empty($r) ? [] : $r;
}
```

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7 kyu

[ASCII letters from Number](#)

Ruby:

```
def convert(number)
  current_position = 0
  ret = ""

  while current_position < number.length
    part = number[(current_position)..(current_position + 1)]
    ret += part.to_i.chr
    current_position += 2
  end

  ret
end
```

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6 kyu

[Valid Phone Number](#)

Ruby:

```
def validPhoneNumber(phoneNumber)
  return false if phoneNumber.match /([a-zA-Z])+/
  (phoneNumber.match /\([0-9]{3}\)\s{1}[0-9]{3}\-[0-9]{4}/).nil? ? false : true
end
```

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```
def validPhoneNumber(phoneNumber)
  return false if phoneNumber.match /abc/
  (phoneNumber.match /\([0-9]{3}\)\s{1}[0-9]{3}\-[0-9]{4}/).nil? ? false : true
end
```

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6 kyu

[Delete occurrences of an element if it occurs more than n times](#)

Ruby:

```
def delete_nth(order,max_e)
  count = {}
  ret = []

  order.each { |item|
    count[item] = 0 if count[item] == nil
    count[item] = count[item] + 1
  }
```

```

    if count[item] <= max_e
      ret.push item
    end
  }

  ret
end

```

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Retired

[Non-consecutive Pairs](#)

Ruby:

```

def non_consec_pairs(my_array)
  ret = []
  my_array.each_with_index { |item1, index1|
    my_array.each_with_index { |item2, index2|
      item1_eval = (item1.is_a?(Integer) || item1.is_a?(Float)) ? item1.to_s : item1
      item2_eval = (item2.is_a?(Integer) || item2.is_a?(Float)) ? item2.to_s : item2
      next if index1 >= index2
      if item1_eval.ord - item2_eval.ord > 1 || item2_eval.ord - item1_eval.ord > 1 || ((item1.is_a?(Float) && item2.is_a?(Float) && (item1 - item2 >
        1)) || (item1.is_a?(Integer) && item2.is_a?(Integer) && (item1 - item2 > 1)))
        ret.push [item1, item2].sort!
      end
    }
  }
  ret
end

```

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7 kyu

[Leap Years](#)

Ruby:

```

def is_leap_year(year)
  begin
    Date.parse "#{year}-02-29"
    return true
  rescue
    return false
  end
end

```

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Beta

[Convert integer to binary](#)

Ruby:

```

def n_to_bits(n, min_length = 1)
  n.to_s(2).rjust min_length, "0"
end

```

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7 kyu

[Every possible sum of two digits](#)

Ruby:

```

def digits(num)
  arr = num.to_s.split("")

  ret = []
  arr.each_with_index { |element1, index1|
    arr.each_with_index { |element2, index2|
      next if index1 >= index2
      ret.push element1.to_i + element2.to_i
    }
  }
  ret
end

```

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7 kyu

[ORing arrays](#)

Ruby:

```
def or_arrays(*args)
  arr1 = args[0]
  arr2 = args[1]
  default_value = args[2].nil? ? 0 : args[2]

  array_to_iterate = arr1.size > arr2.size ? arr1 : arr2

  array_to_iterate.each_with_index { |item, index|
    a = arr1[index].nil? ? default_value : arr1[index]
    b = arr2[index].nil? ? default_value : arr2[index]
    array_to_iterate[index] = a | b
  }
end
```

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[The most common letter](#)

JavaScript:

```
function replaceCommon(string, letter) {
  let counter = {};
  for (let i = 0; i < string.length ; i++) {
    if (string[i] != ' ') {
      if (counter[string[i]] == null) {
        counter[string[i]] = 1;
      } else {
        counter[string[i]] = counter[string[i]] + 1;
      }
    }
  }

  let letterMostFrequent = '';
  let countMostFrequent = 0;

  for (let _letter in counter) {
    if (counter[_letter] > countMostFrequent) {
      letterMostFrequent = _letter;
      countMostFrequent = counter[_letter];
    }
  }

  return string.replaceAll(letterMostFrequent, letter);
}
```

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8 kyu

[Flick Switch](#)

JavaScript:

```
function flickSwitch(arr){
  let ret = [];
  let retItem = true;

  for (let item of arr) {
    if (item == "flick") {
      retItem = !retItem;
    }
    ret.push(retItem);
  }

  return ret;
}
```

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6 kyu

[Difference of 2](#)

Ruby:

```
def twos_difference(lst)
  ret = []
  for i in lst
    for j in lst
      next if i == j
      if i - j == 2
        ret.push [i, j].sort!
      end
      j = j + 1
    end
    i = i + 1
  end
  ret.sort!
end
```

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Beta

[Where Are My Glasses?](#)

Python:

```
import re

def find_glasses(lst):
    for index, item in enumerate(lst):
        if (re.search("0\-\+0", item) is not None):
            return index
```

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8 kyu

[Is your period late?](#)

JavaScript:

```
function periodIsLate(last, today, cycleLength) {
    last.setDate(last.getDate() + cycleLength);
    return last < today;
}
```

- 6 months ago
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Ruby:

```
def period_is_late(last,today,cycle_length)
    last + cycle_length < today
end
```

- 2 months ago
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7 kyu

[All or Nothing](#)

JavaScript:

```
function possiblyPerfect(key,answers) {
    let wrong = 0;
    let contUnderline = 0;

    for (i in key) {
        if (key[i] != "_" && key[i] != answers[i]) {
            wrong = wrong + 1;
        }

        if (key[i] == "_") {
            contUnderline = contUnderline + 1;
        }
    }

    return wrong == 0 || wrong == key.length - contUnderline;
}
```

- 2 months ago
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7 kyu

[Difference Of Squares](#)

Ruby:

```
def difference_of_squares(n)
    ns = (0..n).sum
    n2 = ns ** 2
    total = 0

    (0..n).each { |i|
        total += i ** 2
    }

    n2 - total
end
```

- 4 months ago
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- [Discuss](#)

PHP:

```
function difference_of_squares(int $n): int {
    $sum = 0;
```

```
$i = 0;
while ($i <= $n) {
    $sum += $i;
    $i++;
}

$n2 = pow($sum, 2);

$total = 0;
$i = 0;

while ($i <= $n) {
    $total += pow($i, 2);
    $i++;
}

return $n2 - $total;
}
```

- 2 months ago
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7 kyu

[Building Strings From a Hash](#)

Ruby:

```
def solution(pairs)
  ret = ""
  pairs.each { |key, value|
    ret += key.to_s + " = " + value.to_s + ","
  }
  ret[0...-2]
end
```

- 2 months ago
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- [Discuss](#)

JavaScript:

```
function solution(pairs) {
  let ret = '';
  for (let i in pairs) {
    ret += i + " = " + pairs[i] + ","
  }
  return ret.substring(0, ret.length - 1);
}
```

- 4 months ago
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4 kyu

[Strip Comments](#)

JavaScript:

```
function solution(input, markers){
  var linhas = input.split("\n");
  retorno = [];
  for (let linha of linhas) {
    linha = linha.split(/[\#\!\$]/);
    retorno.push(linha[0].trim()+"\n");
  }
  retorno = retorno.join('');
  return retorno.substr(0,retorno.length-1);
}
```

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Ruby:

```
def solution(input, markers)
  linhas = input.split("\n");
  retorno = [];

  for linha in linhas
    linha = linha.split(/[\#\!@\-$%]/)[0].strip
    retorno.push(linha + "\n")
  end
  (retorno.join "")[0...-2]
end
```

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8 kyu

[isReallyNaN](#)

JavaScript:

```
const isReallyNaN = (n) => {
  if (n === undefined || typeof n == "string" || typeof n == "object" || typeof n == "function") {
    return false;
  }
  return isNaN(n);
};
```

- 3 months ago
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- [Discuss](#)

TypeScript:

```
export function isReallyNaN(n: any): boolean {
  if (n === undefined || typeof n == "string" || typeof n == "object" || typeof n == "function") {
    return false;
  }
  return isNaN(n);
};
```

- 2 months ago
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7 kyu

[Reverse and Invert](#)

Ruby:

```
def reverse_invert(array)
  ret = []

  array.each {|item|
    if item.is_a? Integer
      item = item.to_s + ""

      if item[0] == "-"
        item = "-" + item[1..99].reverse
      else
        item.reverse!
      end

      item = item.to_i
      item = item * -1
      ret.push item
    end
  }

  ret
end
```

- 2 months ago
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6 kyu

[Create Phone Number](#)

Ruby:

```
def create_phone_number(numbers)
  n = numbers
  "#{n[0]}#{n[1]}#{n[2]} #{n[3]}#{n[4]}#{n[5]}-#{n[6]}#{n[7]}#{n[8]}#{n[9]}"
end
```

- 2 months ago
- [Refactor](#)

```
def createPhoneNumber(numbers)
  "#{numbers[0..2].join} #{numbers[3..5].join}-#{numbers[6..10].join}"
end
```

- 7 years ago
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- [Discuss](#)

JavaScript:

```
function createPhoneNumber(numbers){
  return `(${numbers.slice(0,3).join('')}) ${numbers.slice(3,6).join('')}-${numbers.slice(6,10).join('')}`;
}
```

- 7 years ago
- [Refactor](#)

```
function createPhoneNumber(numbers){
  return `(${numbers.slice(0,3).join('')}) ${numbers.slice(3,6).join('')}-${numbers.slice(6,10).join('')}`;
}
```

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PHP:

```
function createPhoneNumber($numbersArray) {
    return "(" . implode(array_slice($numbersArray,0,3),'') . " ) " . implode(array_slice($numbersArray,3,3),'') . "-" . implode(array_slice($numbersArr
```

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```
function createPhoneNumber($numbersArray) {
    return preg_replace('/^(\d{3})(\d{3})(\d{4})$/','($1) $2-$3', implode("", $numbersArray));
}
```

- 2 years ago
- [Refactor](#)

**Groovy:**

```
class Kata {
    static String createPhoneNumber(numbers){
        "(" + numbers[0] + numbers[1] + numbers[2] + " ) " + numbers[3] + numbers[4] + numbers[5] + "-" + numbers[6] + numbers[7] + numbers[8] + number
    }
}
```

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8 kyu

[Easy SQL: Rounding Decimals](#)

**SQL:**

```
select floor(number1) as number1, ceil(number2) as number2 from decimals
```

- 3 months ago
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7 kyu

[Responsible Drinking](#)

**Ruby:**

```
def hydrate(s)
    total = 0
    number_of_drinks = s.gsub!(/[a-zA-Z]+/, '')

    number_of_drinks.each_char{|char|
        total += char.to_i
    }

    if total == 1
        ret = total.to_s + " glass of water"
    else
        ret = total.to_s + " glasses of water"
    end

    ret
end
```

- 3 months ago
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6 kyu

[Bit Counting](#)

**Ruby:**

```
def count_bits(n)
    n.to_s(2).gsub(/0+/,'').length
end
```

- 3 months ago
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```
def count_bits(n)
    total = 0
    ("%b" % n).each_char{|i| total += i.to_i}
    total
end
```

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- [Discuss](#)

Beta

[Sum Only Numbers](#)

**JavaScript:**

```
function sumNumbers() {
  let sum = 0
  for (let i of arguments) {
    if (typeof(i) == 'number') {
      sum = sum + i;
    }
  }
  return sum;
}
```

- 3 months ago
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7 kyu

[How many consecutive numbers are needed?](#)

Ruby:

```
def consecutive(arr)
  return 0 if arr.empty?
  consecutive_number_needed = 0
  arr.sort!
  i = arr[0]

  while i < arr[-1]
    i = i + 1
    consecutive_number_needed = consecutive_number_needed + 1 unless arr.include? i
  end

  consecutive_number_needed
end
```

- 3 months ago
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6 kyu

[Data Reverse](#)

Ruby:

```
def data_reverse(data)
  slots = []

  data.each_with_index{ |data, index|
    slots[index / 8] = [] if slots[index / 8].nil?
    slots[index / 8].push data
    puts index / 8
  }

  slots.reverse.flatten
end
```

- 3 months ago
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7 kyu

[Parallel resistors](#)

JavaScript:

```
function resistor_parallel(){
  let rInvertedSum = 0;

  for (const argument of arguments) {
    rInvertedSum += 1/argument;
  }

  return 1/rInvertedSum;
}
```

- 4 months ago
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7 kyu

[String to list of integers.](#)

Ruby:

```
def string_to_int_list(s)
  ret = []
  s.split(',').each{ |number_string|
    ret.push number_string.to_i if !number_string.empty?
  }
  ret
end
```

- 5 months ago
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7 kyu

[Is There an Odd Bit?](#)

Ruby:

```
def any_odd?(x)
  ret = false
  x_string = x.to_s(2)

  x_string.reverse.split("").each_with_index {|digit, index|
    next if (index) % 2 == 0

    if digit == "1"
      ret = true
      break
    end
  }
  ret
end
```

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7 kyu

[Reversing Fun](#)

Ruby:

```
def reverse_fun(n)
  cont = 0
  ret = n.reverse
  while cont < n.length
    ret = ret[0..cont] + ret[(cont + 1)..n.length].reverse
    cont = cont + 1
  end
  ret
end
```

- 5 months ago
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8 kyu

[Neutralisation](#)

JavaScript:

```
function neutralise(s1, s2) {
  let ret = ""
  for (var i in s1) {
    if (s1[i] == "+" && s2[i] == "+") {
      ret = ret + "+";
    } else if (s1[i] == "-" && s2[i] == "-") {
      ret = ret + "-";
    } else {
      ret = ret + "0";
    }
  }
  return ret;
}
```

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7 kyu

[Arithmetical List!](#)

Ruby:

```
def seqlist(first,c,l)
  current = first
  ret = []

  while true
    if ret.length == l
      return ret
    end
    ret.push current
    current += c
  end
end
```

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7 kyu

[Closest to Zero](#)

Ruby:

```
def closest(arr)
  ret = 100000000000
  count = 0

  arr.each{ |item|
    if ((item != ret) && ((item.abs == ret) || (item == ret.abs)))
      count = count + 1
      puts "item: #{item}"
      puts count
    end

    if item.abs < ret.abs
      ret = item
      count = 1
      puts count
    end
  }

  return nil if count > 1
  return ret
end
```

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7 kyu

[Only one](#)

JavaScript:

```
function onlyOne() {
  let countArguments = 0

  for (const argument of arguments) {
    if (argument == true) {
      countArguments++
    }

    if (countArguments > 1) {
      break;
    }
  }

  return countArguments == 1
}
```

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7 kyu

[ONE ONe One one](#)

JavaScript:

```
function consecutiveOnes(nums) {
  let max = 0;
  let count = 0;

  for (let num of nums) {
    if (num == 1) {
      count = count + 1
      if (count > max) {
        max = count;
      }
    } else {
      count = 0;
    }
  }

  return max;
};
```

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7 kyu

[lucky number](#)

Ruby:

```
def is_lucky(n)
  n_sum = 0
  n.to_s.split("").each{|i| n_sum += i.to_i }
  return true if n_sum == "0"
  return true if n_sum % 9.0 == 0
  false
end
```

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7 kyu

[Inspiring Strings](#)

**Ruby:**

```
def longest_word(string_of_words)
  major_length = 0
  ret = ""

  string_of_words.split(" ").each{ |word|
    if word.length >= major_length
      major_length = word.length
      ret = word
    end
  }
  ret
end
```

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7 kyu

[Consecutive items](#)**Ruby:**

```
def consecutive(arr, a, b)
  first_index = arr.index(a)
  second_index = arr.index(b)
  first_index + 1 == second_index || second_index + 1 == first_index
end
```

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7 kyu

[Return String of First Characters](#)**Ruby:**

```
def make_string(s)
  ret = ""

  s.split(" ").each{ |substring|
    ret += substring[0]
  }

  ret
end
```

- 6 months ago
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- [Discuss](#)

7 kyu

[Simple Fun #144: Distinct Digit Year](#)**Ruby:**

```
def distinct_digit_year(year)
  year = year + 1

  while true
    array_string_digits = year.to_s.split('')
    uniq_array_string_digits = array_string_digits.uniq

    return year if array_string_digits.length == uniq_array_string_digits.length

    year = year + 1
  end
end
```

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8 kyu

[Even or Odd](#)**Ruby:**

```
def even_or_odd(number)
  (number) % 2 == 0 ? "Even" : "Odd"
end
```

- 6 months ago
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- [Discuss](#)

**JavaScript:**

```
function even_or_odd(number) {
  if (typeof(number) != "number") {
```

```

    return null;
}

if (Math.abs(number % 2) == 1 ) {
    return "Odd";
}

return "Even";
}

```

- 7 years ago
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- [Discuss](#)

```

function even_or_odd(number) {
    if (number & 1 == 1) {
        return "Odd";
    }
    return "Even";
}

```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

**PHP:**

```

function even_or_odd($number) {
    if (abs($number) % 2 == 1) {
        return "Odd";
    }
    return "Even";
}

```

- 15 months ago
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7 kyu

[reverseIt](#)**Ruby:**

```

def reverse_it(data)
    convert_to_integer = false
    original_class = ""

    if data.is_a? Numeric
        original_class = data.class
        data = data.to_s
        convert_to_integer = true
    end

    if data.is_a? String
        data = data.reverse
    end

    if convert_to_integer
        data = data.to_f
    end
end

```

- 7 months ago
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- [Discuss](#)

7 kyu

[Elapsed Seconds](#)**Ruby:**

```

def elapsed_seconds(start_time, end_time)
    end_time - start_time
end

```

- 7 months ago
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- [Discuss](#)

8 kyu

[Thinkful - Logic Drills: Traffic light](#)**Python:**

```

def update_light(current):
    if current == "green":
        return "yellow"

    if current == "yellow":
        return "red"

```

```
if current == "red":
    return "green"
```

- 6 years ago
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C#:

```
public class Kata
{
    public static string UpdateLight(string current)
    {
        if (current == "green") {
            return "yellow";
        } else if (current == "yellow") {
            return "red";
        } else {
            return "green";
        }
    }
}
```

- 6 years ago
- [Refactor](#)
- [Discuss](#)

JavaScript:

```
function updateLight(current) {
    if (current == "green") {
        return "yellow";
    } else if (current == "yellow") {
        return "red";
    }
    return "green"
}
```

- 5 years ago
- [Refactor](#)

```
function updateLight(current) {
    if (current == "green") {
        return "yellow";
    }
    if (current == "yellow") {
        return "red";
    } else {
        return "green";
    }
}
```

- 5 years ago
- [Refactor](#)

```
function updateLight(current) {
    if (current == "green") {
        return "yellow";
    }
    else if (current == "yellow") {
        return "red";
    }
    else {
        return "green";
    }
}
```

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Java:

```
public class TrafficLights {

    public static String updateLight(String current) {
        if (current.equals("green")) {
            return "yellow";
        }
        if (current.equals("yellow")) {
            return "red";
        }
        return "green";
    }
}
```

- 8 months ago
- [Refactor](#)

```
public class TrafficLights {

    public static String updateLight(String current) {
```

```

if (current == "green") {
    return "yellow";
}

if (current == "yellow") {
    return "red";
}

return "green";
}

```

- 8 months ago
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```

public class TrafficLights {

    public static String updateLight(String current) {
        if (current == "green") {
            return "yellow";
        } else if (current == "yellow") {
            return "red";
        }

        return "green";
    }
}

```

- 5 years ago
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```

public class TrafficLights {

    public static String updateLight(String current) {
        if (current == "green") {
            return "yellow";
        }

        return current == "yellow" ? "red" : "green";
    }
}

```

- 5 years ago
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```

public class TrafficLights {

    public static String updateLight(String current) {
        if (current == "green") {
            return "yellow";
        }

        if (current == "yellow") {
            return "red";
        } else {
            return "green";
        }
    }
}

```

- 5 years ago
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- [Discuss](#)

7 kyu

[String Merge!](#)

Ruby:

```

def string_merge(word1, word2, letter)
    puts word1[0..word1.index(letter)]
    puts word2[word2.index(letter)..-1]
    word1[0..word1.index(letter)] + word2[word2.index(letter)+1..-1]
end

```

- 8 months ago
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- [Discuss](#)

7 kyu

[Are there doubles?](#)

Ruby:

```

def double_check(str)
    previous_char = ""

    str.each_char { |char|
        char = char.downcase
        return true if char == previous_char
        previous_char = char
    }

    false
end

```

- 8 months ago

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7 kyu

[Average Scores](#)

Ruby:

```
def average(array)
  (array.sum / array.size.to_f).round
end
```

- 9 months ago
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- [Discuss](#)

7 kyu

[Smallest Product](#)

JavaScript:

```
function smallestProduct(arr) {
  let minor = 100000;
  for (let item of arr) {
    let multiplication = 1;
    for (let innerItem of item) {
      multiplication = multiplication * innerItem;
    }
    if (minor > multiplication) {
      minor = multiplication;
    }
  }
  return minor;
}
```

- 9 months ago
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- [Discuss](#)

7 kyu

[Float Precision](#)

Ruby:

```
def solution(value)
  value = (value * 100).round.to_i
  value/100.0
end
```

- 9 months ago
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- [Discuss](#)

7 kyu

[Menu Display](#)

Python:

```
class Menu:
    def __init__(self, items):
        self.position = 0
        self.items = items

    def to_the_right(self):
        if self.position == len(self.items) - 1:
            self.position = 0
        else:
            self.position = self.position + 1

    def to_the_left(self):
        if self.position == 0:
            self.position = len(self.items) - 1
        else:
            self.position = self.position - 1

    def display(self):
        cont = 0
        ret = "["
        while cont < len(self.items):
            if cont == self.position:
                print(type(self.items[cont]))
                if (type(self.items[cont]) is str):
                    ret = ret + "[" + str(self.items[cont]) + "]" + ", "
                else:
                    ret = ret + "[" + str(self.items[cont]) + "]" + ", "
            else:
                if (type(self.items[cont]) is str):
                    ret = ret + "'" + str(self.items[cont]) + "'" + ", "
                else:
                    ret = ret + str(self.items[cont]) + ", "
            cont = cont + 1
        return ret[0: len(ret) - 2] + "]"
```

- 9 months ago
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7 kyu

[Diagonals sum](#)

JavaScript:

```
function sum(matrix) {
  let cont = 0;
  let sum = 0;

  while (cont < matrix.length) {
    sum = sum + matrix[cont][cont];
    sum = sum + matrix[cont][matrix.length - cont - 1];
    cont = cont + 1
  }

  return sum;
}
```

- 9 months ago
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7 kyu

[Converting 12-hour time to 24-hour time](#)

JavaScript:

```
function to24hourtime(hour, minute, period) {
  let h = hour;

  console.log(hour);

  if (period == "pm") {
    h = h + 12;
  }

  if (h == 24) {
    h = 12;
  }

  if (period == "am" && hour == 12) {
    h = 0;
  }

  return (h + "").padStart(2, '0') + (minute + "").padStart(2, 0);
}
```

- 9 months ago
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- [Discuss](#)

7 kyu

[Simple Fun #270: Evil Code Medal](#)

Ruby:

```
def evil_code_medal(user_time, gold, silver, bronze)
  if user_time < gold
    return "Gold"
  elsif user_time < silver
    return "Silver"
  elsif user_time < bronze
    return "Bronze"
  end
  "None"
end
```

- 10 months ago
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- [Discuss](#)

7 kyu

[Alternating between three values](#)

JavaScript:

```
function f(x, cc) {
  if (x == cc["a"]) {
    return cc["b"];
  } else if (x == cc['b']) {
    return cc['c'];
  }
  return cc['a'];
}
```

- 10 months ago
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- [Discuss](#)

7 kyu

[Sum and Multiply](#)

JavaScript:

```
var sumAndMultiply = function(sum, multiply) {
    // Uma forma não muito eficiente, mas creio que a solução correta (fórmula) é complexa...
    let x = 0;
    let y = 0;
    while (x < 10000) {
        while (y < 10000) {
            if (x + y == sum && x * y == multiply) {
                return [x, y];
            }
            y = y + 1;
        }
        x = x + 1;
        y = 0;
    }
    return null;
}
```

- 10 months ago
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8 kyu

[Simple Fun #352: Reagent Formula](#)

JavaScript:

```
function isValid(formula){
    if (formula.indexOf(1) > -1 && formula.indexOf(2) > -1) {
        return false;
    }

    if (formula.indexOf(3) > -1 && formula.indexOf(4) > -1) {
        return false;
    }

    if (formula.indexOf(5) != -1) {
        if (formula.indexOf(6) == -1) {
            return false;
        }
    }

    if (formula.indexOf(6) != -1) {
        if (formula.indexOf(5) == -1) {
            return false;
        }
    }

    if (formula.indexOf(7) == -1 && formula.indexOf(8) == -1) {
        return false;
    }

    return true;
}
```

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- [Discuss](#)

Beta

[Geometric sequence - sum of all elements](#)

Ruby:

```
def geometric_sequence_sum(a, r, n)
    sum = 0
    previous = 1

    while n > 0
        n = n - 1
        sum = sum + (previous * a)
        previous = previous * r
    end

    sum
end
```

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7 kyu

[What dominates your array?](#)

Ruby:

```
def dominator(arr)
    totals = {}

    arr.sort.each {|item|
        totals[item] = totals[item].to_i + 1
    }

    totals.each {|key, total|
        return key if total > (arr.length / 2)
    }

```

```

    }
    return -1
end

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• Discuss

```

7 kyu

[Write shortest function to calculate Average number of Array.](#)

JavaScript:

```

function avg(a){
  return a.reduce((x, y) => x + y, 0)/a.length
}

```

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7 kyu

[Insert Dashes 2](#)

Ruby:

```

def insert_dash2(num)
  num = num.to_s.split('')
  prev = -1
  ret = ''

  num.each{ |i|
    if prev != -1
      if (prev != 0 && prev % 2 == 0 && i.to_i % 2 == 0 && i != '0')
        ret = ret + '*'
      elsif prev % 2 == 1 && i.to_i % 2 == 1
        ret = ret + '-'
      end
    end

    ret = ret + i
    prev = i.to_i
  }

  ret
end

```

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6 kyu

[Take a Ten Minutes Walk](#)

Ruby:

```

def is_valid_walk(walk)
  latitude = 0
  longitude = 0

  walk.each { |direction|
    latitude = latitude + 1 if direction == "w"
    latitude = latitude - 1 if direction == "e"
    longitude = longitude + 1 if direction == "n"
    longitude = longitude - 1 if direction == "s"
  }

  walk.length==10 && latitude == 0 && longitude == 0
end

```

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Beta

[Last Digit of an Array](#)

JavaScript:

```

function lastDigit(arr) {
  let ret;

  for (let item of arr) {
    if (typeof item == "number") {
      item = item + ""
      if (item.indexOf(".") == -1) {
        ret = item[item.length - 1]
      }
    }
  }

  if (ret === undefined) {
    return "No integers found.";
  }
}

```

```
return parseInt(ret);
// code goes here.
```

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Draft

[Tug-o'-War](#)

Ruby:

```
def tug_o_war(teams)
  wins_1 = 0
  wins_2 = 0

  teams[0].each_with_index { |value, index|
    if value > teams[1][index]
      wins_1 += value - teams[1][index]
    elsif value < teams[1][index]
      wins_2 += teams[1][index] - value
    end
  }

  if wins_1 == wins_2
    if teams[0][0] > teams[1][-1]
      wins_1 = wins_1 + 1
    elsif teams[0][0] < teams[1][-1]
      wins_2 = wins_2 + 1
    end
  end

  if wins_1 > wins_2
    return "Team 1 wins!"
  elsif wins_1 < wins_2
    return "Team 2 wins!"
  end

  "It's a tie!"
end
```

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[Find all active students](#)

SQL:

```
-- Type your query here
select * from students where isActive=1
```

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7 kyu

[Find array](#)

JavaScript:

```
function findArray(arr1, arr2){
  let ret = [];

  for (let i of arr2) {
    if (arr1[i] !== undefined) {
      ret.push(arr1[i]);
    }
  }

  return ret;
}
```

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[Eliminate the intruders! Bit manipulation](#)

Ruby:

```
def eliminate_set_bits number
  (number.gsub '/0+/', "").to_i(2)
end
```

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[Sum of Digits / Digital Root](#)

Ruby:

```
def digital_root(n)
  ret = n

  while true
    ret = sum ret
    break if ret <= 9
  end

  ret
end

def sum s
  sum = 0
  s.to_s.each_char {|item|
    sum += item.to_i
  }
  sum
end
```

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[Basic JS - Building a calculator](#)

JavaScript:

```
var Calculator = {};

Calculator.add = function(a, b) {
  return a + b;
}

Calculator.subtract = function(a, b) {
  return a - b;
}

Calculator.multiply = function(a, b) {
  return a * b;
}

Calculator.divide = function(a, b) {
  if (b == 0) {
    return false;
  }
  return a / b;
}
```

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[SQL Grasshopper: Select Columns](#)

SQL:

```
select custid, custname, custstate from customers
```

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Retired

[Find Unique Integer](#)

JavaScript:

```
function findUniqueInteger(numbers) {
  let count = {}

  for (let number of numbers) {
    console.log(number);
    if (count[number] === undefined) {
      count[number] = 1;
    } else {
      count[number] = parseInt(count[number]) + 1;
    }
  }

  for (let item in count) {
    if (count[item] === 1) {
      return parseInt(item);
    }
  }
}
```

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[Get key/value pairs as arrays](#)

**Ruby:**

```
def keysAndValues(data)
  indexes = []
  values = []

  data.each { |key, value|
    indexes.push key
    values.push value
  }

  [indexes, values]
end
```

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[No ifs no buts](#)**JavaScript:**

```
function noIfsNoButs(a, b) {
  switch (a < b) {
    case true:
      return a + " is smaller than " + b;
  }

  switch (a > b) {
    case true:
      return a + " is greater than " + b;
  }

  switch (a == b) {
    case true:
      return a + " is equal to " + b;
  }
}
```

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["this" is a problem](#)**JavaScript:**

```
function NameMe(first, last) {
  return {
    'name': first + ' ' + last,
    'firstName': first,
    'lastName': last
  };
}
```

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[Remove Odd Hashes](#)**Ruby:**

```
def remove_odd_hashes(array, key_1, key_2)
  ret = []
  array.each { |hash|
    if (hash[key_1] + hash[key_2]) % 2 == 0
      ret.push hash
    end
  }
  ret
end
```

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[Multiply array values and filter non-numeric](#)**JavaScript:**

```
function multiplyAndFilter(array, multiplier){
  let ret = []

  for (let i of array) {
    if (typeof i != "object") {
      if (! isNaN(i)) {
        ret.push(i * multiplier);
      }
    }
  }
}
```

```
    return ret;
}
```

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[Array Array Array](#)

JavaScript:

```
function explode(x){
  let i = 0;
  let s1 = parseInt(x[0]);
  let s2 = parseInt(x[1]);

  if (isNaN(s1)) {
    s1 = 0;
  }
  if (isNaN(s2)) {
    s2 = 0;
  }

  let ret = [];
  while (i < (s1 + s2) ) {
    ret.push([
      x[0],
      x[1]
    ]);
    i = i + 1;
  }

  console.log(ret.length)
  if (ret.length == 0 && isNaN(parseInt(x[0])) && isNaN(parseInt(x[1]))) {
    return 'Void!';
  }
}

return ret;
}
```

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[So basic](#)

JavaScript:

```
function convertBase20ToDecimal(init){
  // teh awesome codez
  let ret = parseInt(init, "20");

  if (isNaN(ret)) {
    return -1;
  }

  return ret;
}
```

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[Basic method](#)

JavaScript:

```
// Your code
Array.prototype.max = function() {
  let value = this.sort()
  return parseInt(value[value.length - 1])
}
```

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[ES6 string addition](#)

JavaScript:

```
function joinStrings(string1, string2){
  return `${string1} ${string2}`;
}
```

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[Running out of space](#)

**Ruby:**

```
def spacey(array)
  ret = []
  string = ""
  new_string = ""

  array.each { |item|
    new_string = string + item
    ret.push new_string
    string = new_string
  }

  ret
end
```

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[Easy SQL: LowerCase](#)**SQL:**

```
/* SQL */
select id, name, birthday, lower(race) as race from demographics
```

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7 kyu

[Character Concatenation](#)**Ruby:**

```
def char_concat(word)
  ret = ""

  word.each_char.with_index { |char, index|
    break if index == word.length / 2
    ret += char + word[word.length - index - 1] + (index + 1).to_s
  }

  ret
end
```

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[Two Sum](#)**Ruby:**

```
def two_sum(numbers, target)
  numbers.each_with_index { |number1, index1|
    numbers.each_with_index { |number2, index2|
      next if index1 == index2
      return [index1, index2] if number1 + number2 == target
    }
  }
end
```

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[Nth Root of a Number](#)**Ruby:**

```
def root(x, n)
  x ** (1.0/n)
end
```

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7 kyu

[Sum Factorial](#)**Ruby:**

```
def sum_factorial(lst)
  total = 0
  lst.each { |number|
    total = total + factorial(number)
  }
  total
end
```

```

end

def factorial number
  total = 1

  while number > 1
    total = total * number
    number = number - 1
  end

  total
end

```

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8 kyu

[Quadrants](#)

JavaScript:

```

function quadrant(x, y) {
  if (x > 0) {
    if (y > 0) {
      return 1;
    } else {
      return 4;
    }
  } else {
    if (y > 0) {
      return 2;
    } else {
      return 3;
    }
  }
}

```

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[OOP: Object Oriented Piracy](#)

Ruby:

```

class Ship
  def initialize(draft, crew)
    @draft=draft
    @crew=crew
  end

  def is_worth_it
    weight = @draft - @crew * 1.5
    return false if weight <= 20
    true
  end
end

```

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[Hex Word Sum](#)

Ruby:

```

def hex_word_sum(s)
  s = s.gsub '/S/, "5"
  s = s.gsub '/0/, "0"

  sum = 0

  s.split(" ").each { |word|
    unless (word.match /[G-Zg-z]/).to_s.length > 0
      sum += word.to_i(16)
    end
  }

  sum
end

```

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```

def hex_word_sum(s)
  s = s.gsub '/S/, "5"
  s = s.gsub '/0/, "0"

  sum = 0

  filtered_word = ""
  s.split(" ").each { |word|
    unless (word.match /[G-Zg-z]/).to_s.length > 0
      sum += word.to_i(16)
    end
  }

```

```

    filtered_word += word
  end
}

sum
end

```

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[Node.js Intro](#)

JavaScript:

```

String.prototype.toBase64 = function() {
  return Buffer.from(this, 'utf8').toString('base64')
}

String.prototype.fromBase64 = function() {
  return Buffer.from(this, 'base64').toString('utf8')
}

```

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[Alternate Square Sum](#)

JavaScript:

```

function alternateSqSum(arr){
  let ret = 0;
  for (let i in arr) {
    if (i % 2 == 0) {
      ret = ret + arr[i];
    } else {
      ret = ret + (arr[i] * arr[i]);
    }
  }
  return ret;
}

```

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[Between Extremes](#)

Ruby:

```

def between_extremes(numbers)
  numbers.sort!
  numbers[-1] - numbers[0]
end

```

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[Say hello!](#)

Ruby:

```

def greet(name)
  return nil if name.nil? or name.empty?
  return "hello #{name}!"
end

```

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[Decreasing Inputs](#)

Ruby:

```

def add(*args)
  sum = 0.0
  args.each_with_index {|arg, index|
    sum = sum + (arg/(index+1.0))
  }
  sum.round
end

```

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[Speed Limit](#)

Python:

```
def speed_limit(speed, signals):
    total = 0

    for limit in signals:
        if speed >= limit + 30:
            total = total + 500
        elif speed >= limit + 20:
            total = total + 250
        elif speed >= limit + 10:
            total = total + 100

    return total
```

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Retired

[bruh](#)

Python:

```
def newmax(arr):
    return max(arr)

def newmin(arr):
    return min(arr)

def newmean(arr):
    return int(sum(arr) / len(arr))
```

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[Multiply the strings in the array.](#)

JavaScript:

```
function arrMultiply(arr){
    return parseInt(arr[0]) * parseInt(arr[1]) + "";
}
```

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7 kyu

[Find all occurrences of an element in an array.](#)

Ruby:

```
def find_all arr,n
  ret = []

  arr.each.with_index { |number, index|
    ret.push index if n == number
  }

  ret
end
```

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5 kyu

[Interleaving Arrays](#)

Ruby:

```
def interleave(*param)
  ret = []
  major_size= 0
  cont = 0

  param.each { |arr|
    if arr.size > major_size
      major_size = arr.size
    end
  }

  while cont < major_size
    param.each { |arr|
      ret.push arr[cont]
    }
  }
```

```
    cont = cont + 1
end

return ret
end
```

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[Find twins](#)**Ruby:**

```
def elimination(arr)
  arr.each{|number|
    total = arr.count number
    return number if total > 1
  }
  return nil
end
```

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7 kyu

[Asterisk it](#)**Ruby:**

```
def asterisk_it(inp)
  if inp.is_a? Integer
    inp = inp.to_s
  elsif inp.is_a? Array
    inp = inp.join('')
  end

  ret = ""
  inp.each_char.with_index{|char, index|
    ret = ret + char
    puts inp[index]
    if char.to_i % 2 == 0 && inp[index+1].to_i % 2 == 0
      ret = ret + "*"
    end
  }

  if ret[-1] == "*"
    ret = ret[0..-2]
  end

  ret
end
```

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[Find min and max](#)**Ruby:**

```
def get_min_max(seq)
  [seq.min, seq.max]
end
```

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[Simple string reversal II](#)**Ruby:**

```
def solve st,a,b
  start = a == 0 ? "" : st[0..a-1]
  start = start.nil? ? "" : start
  #puts start

  middle = st[a..b].reverse
  middle = middle.nil? ? "" : middle
  #puts middle

  ending = st[b+1..-1]
  ending = ending.nil? ? "" : ending
  #puts ending
  puts ending.nil?
  #puts "---"

  start + middle + ending
end
```

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6 kyu

[Compare Versions](#)

Ruby:

```
def compare_versions(version1,version2)
  major_version_array = version1.split(".")
  minor_version_array = version2.split(".")

  minor_version_array.each_with_index { |minor_version_part, index|
    return false if major_version_array[index].nil?

    return false if minor_version_part.to_i > major_version_array[index].to_i
  }

  true
end
```

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7 kyu

[Remove the noise from the string](#)

JavaScript:

```
function removeNoise(str){
  let ret = str.replaceAll("%", "")
  .replaceAll("#", "")
  .replaceAll("&", "")
  .replaceAll("/", "")
  .replaceAll("#", "")
  .replaceAll(".", "")
  .replaceAll("@", "")
  .replaceAll("|", "")
  .replaceAll("^", "")
  .replaceAll("\\\\", "")
  .replaceAll("`", "")

  console.log(ret)
  return ret;
}
```

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6 kyu

[Matrix Addition](#)

Ruby:

```
def matrixAddition(a, b)
  ret = []
  a.each_with_index{ |external_item, external_index|
    ret[external_index] = []
    external_item.each_with_index{ |internal_item, internal_index|
      ret[external_index][internal_index] = internal_item + b[external_index][internal_index]
    }
  }
  ret
end
```

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7 kyu

[Find the Squares](#)

Ruby:

```
def find_squares(num)
  i = 2

  while true
    difference = (i * i) - ((i - 1) * (i - 1))

    if difference == num
      return (i * i).to_s + "-" + ((i - 1) * (i - 1)).to_s
    elsif difference > num
      return "1-0"
    end
    i = i + 1
  end
end
```

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6 kyu

[Can you keep a secret?](#)

JavaScript:

```
function createSecretHolder(secret) {
  let _secret = secret;

  return {
    getSecret: function() {
      return _secret;
    },
    setSecret: function (value) {
      _secret = value;
    }
}
```

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[Vowel one](#)

JavaScript:

```
function vowelOne(s){
  let ret = "";
  s = s.toLowerCase();
  for (let char of s) {
    if (char == 'a' || char == 'e' || char == 'i' || char == 'o' || char == 'u') {
      ret += "i";
    } else {
      ret += "o";
    }
  }
  return ret;
}
```

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[Keep the Order](#)

Ruby:

```
def keep_order(ary, val)
  position = 1
  ary.each{ |number|
    if number >= val
      return position - 1
    end
    position = position + 1
  }
  position - 1
end
```

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7 kyu

[Simple string characters](#)

Ruby:

```
def solve s
  uppercase_occurrences = 0
  lowercase_occurrences = 0
  numbers_occurrences = 0
  special_characters_occurrences = 0
  s.each_char{|occurrence|
    puts occurrence
    puts occurrence.ord
    puts "----"
    if occurrence.ord >= 65 && occurrence.ord <= 90
      uppercase_occurrences = uppercase_occurrences + 1
    elsif occurrence.ord >= 97 && occurrence.ord <= 122
      lowercase_occurrences = lowercase_occurrences + 1
    elsif occurrence.ord >= 48 && occurrence.ord <= 57
      numbers_occurrences = numbers_occurrences + 1
    else
      special_characters_occurrences = special_characters_occurrences + 1
    end
  }
  puts "*****"
  [
    uppercase_occurrences,
    lowercase_occurrences,
    numbers_occurrences,
    special_characters_occurrences
  ]
end
```

```
]
end
```

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[Find the index of the first occurrence of an item in a list \(with a twist\).](#)

Python:

```
def index_finder(lst, x):
    for index, item in enumerate(lst):
        if index == 0:
            continue
        if item == x:
            return index
```

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[Find the index of the second occurrence of a letter in a string](#)

Python:

```
def second_symbol(s, symbol):
    already_founded = False
    cont = 0
    for char in s:
        if char == symbol:
            if already_founded:
                return cont
            else:
                already_founded = True
        cont = cont + 1
    return -1
```

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[Multiply](#)

JavaScript:

```
function multiply(a, b){
    return a * b
}
```

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```
function multiply(a, b){
    return a * b;
}
```

- 5 years ago
- [Refactor](#)

```
function multiply(a, b){
    return a * b;
}
```

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- [Refactor](#)

```
function multiply(a, b){
    return a * b
}
```

- 9 years ago
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Python:

```
def multiply(a, b):
    return a * b
```

- 6 years ago
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```
def multiply(a, b):
    return a * b
```

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Java:

```
public class Multiply {
    public static Double multiply(Double a, Double b) {
        return a * b;
    }
}
```

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PHP:

```
function multiply($a, $b) {
    return $a * $b;
}
```

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```
function multiply($a, $b) {
    return $a * $b;
}
```

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C:

```
int multiply(int a, char *b) {
    return a * (int) b;
}
```

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```
int multiply(int a, int b) {
    return a * b;
}
```

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Kotlin:

```
fun multiply(x:Double, y:Double):Double {
    return x * y;
}
```

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Objective-C:

```
int multiply(int a, int b) {
    return a * b;
}
```

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R:

```
mul <- function(a, b) {
    a * b;
}
```

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```
mul <- function(a, b) {
    a * b # try to figure out why it doesn't work!
}
```

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```
mul <- function(a, b) {
    result <- a * b;
}
```

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TypeScript:

```
export function multiply(a, b){
    return a * b;
}
```

- 5 years ago

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```
export function multiply(a, b){
    return a * b;
}
```

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C#:

```
public class CustomMath {
    public static int multiply(int a, int b) {
        return a * b;
    }
}
```

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Go:

```
package multiply

func Multiply(a, b int) int {
    return a * b
}
```

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```
package multiply
```

```
func Multiply(a, b int) int {
    return a * b
}
```

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PowerShell:

```
function Multiply($a, $b) {
    return $a * $b;
}
```

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```
function Multiply($a, $b) {
    return $a * $b
}
```

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Solidity:

```
pragma solidity ^0.4.13;

contract DummyToken {
    function multiply(int a, int b) returns (int) {
        return a * b;
    }
}
```

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```
pragma solidity ^0.4.13;

contract DummyToken {
    function multiply(int a, int b) returns (int) {
        return a * b;
    }
}
```

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C++:

```
int multiply(int a, int b)
{
    return a * b;
}
```

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- [Discuss](#)

**Crystal:**

```
def multiply(x, y)
  x * y
end
```

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```
def multiply(x, y)
  return x * y
end
```

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**Clojure:**

```
(ns multiply.bug.fix)
```

```
(defn multiply [a, b]
  (* a b))
```

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```
(ns multiply.bug.fix)
```

```
(defn multiply [a b]
  (* a b))
```

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**CoffeeScript:**

```
multiply = (a, b) -> a * b
```

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**Dart:**

```
int multiply(int a, int b) {
  return a * b;
}
```

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**Elixir:**

```
defmodule Multiply do
  def multiply(a, b) do
    a * b
  end
end
```

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- [Discuss](#)

```
defmodule Multiply do
  def multiply(a, b) do
    a * b;
  end
end
```

- 5 years ago
- [Refactor](#)

**Elm:**

```
module MultiplyBugFix exposing(..)
```

```
multiply : Int -> Int -> Int
multiply x y = x * y
```

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```
module MultiplyBugFix exposing(..)
```

```
multiply : Int -> Int -> Int
multiply x y = x * y
```

- 5 years ago

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```
module MultiplyBugFix exposing(..)
```

```
multiply : Int -> Int -> Int
multiply x y = x*y
```

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Erlang:

```
-module(bug_fix).
-export([multiply/2]).
```

```
-spec multiply(integer(), integer()) -> integer().
multiply(A, B) -> A * B.
```

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```
-module(bug_fix).
-export([multiply/2]).
```

```
-spec multiply(integer(), integer()) -> integer().
multiply(A, B) -> A*B.
```

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F#:

```
let multiply a b = a * b
```

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Groovy:

```
class Multiply {
    static multiply(a, b) {
        a * b
    }
}
```

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Julia:

```
module Solution
    export multiply
    function multiply(a, b)
        a * b
    end
end
```

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Lua:

```
local kata = {}

function kata.multiply(a, b)
    return a * b;
end
```

```
return kata
```

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```
local kata = {}
```

```
function kata.multiply(a, b)
    return a * b
end
```

```
return kata
```

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Nim:

```
proc multiply*(a:int, b: int): int = return a * b
```

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PureScript:

```
module MultiplyBugFix where

import Prelude

multiply :: Int -> Int -> Int
multiply x y = x * y
```

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Reason:

```
let multiply = (a, b) => a * b;
```

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Ruby:

```
def multiply(a, b)
  a * b
end
```

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Rust:

```
fn multiply(a: u32, b: u32) -> u32 {
    return a * b;
}
```

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- [Discuss](#)

Scala:

```
object Multiply {
  def multiply(a: Int, b: Int) = a * b
}
```

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```
object Multiply {
  def multiply(a: Int, b: Int) = a * b
}
```

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Shell:

```
#!/bin/bash -e
a=$1
b=$2
echo $((a*b))
```

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Swift:

```
func multiply(_ a: Double, _ b: Double) -> Double {
    return a * b;
}
```

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- [Discuss](#)

SQL:

```
SELECT price * amount AS total FROM items
```

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- [Discuss](#)

**Agda:**

```
{-# OPTIONS --safe #-}

module Solution where
```

```
open import Data.Nat
```

```
multiply : N → N → N
multiply a b = a * b
```

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**Racket:**

```
#lang racket
(provide multiply)

(define (multiply a b) (* a b))
```

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**VB:**

```
Public Module Example
    Public Function Multiply(ByVal a As Integer, ByVal b As Integer) As Integer
        Return a * b
    End Function
End Module
```

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**CFML:**

```
component {
    function multiply(a, b) {
        return a * b;
    }
}
```

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**Haxe:**

```
class Kata {
    public static function multiply(a, b) {
        return a * b;
    }
}
```

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**COBOL:**

```
123456*
IDENTIFICATION DIVISION.
PROGRAM-ID. SOLUTION.
DATA DIVISION.
WORKING-STORAGE SECTION.
01 PRODAND-1    PIC 9(04) VALUE 1.
01 PRODAND-2    PIC 9(04) VALUE 1.
01 RESULT       PIC 9(04).
PROCEDURE DIVISION.
    GOBACK.
F01-MULT SECTION.
    MULTIPLY PRODAND-1 BY PRODAND-2 GIVING RESULT.
```

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**CommonLisp:**

```
(defpackage #:challenge/solution
  (:use #:cl)
  (:export #:multiply))
(in-package #:challenge/solution)

(defun multiply (a b) (* a b))
```

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Perl:

```
package Solution;

use 5.030;
use strict;
use warnings;
use Exporter qw(import);

our @EXPORT_OK = qw(multiply);

sub multiply {
    my $a = shift;
    my $b = shift;
    return $a * $b;
}

1;
```

- 3 years ago
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Raku:

```
use v6;
unit module Solution;

sub multiply(Int $a, Int $b --> Int) is export {
    $a * $b;
}
```

- 3 years ago
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Pascal:

```
unit BugFixMultiply;

{$mode objfpc}{$H+}

interface

function Multiply(const A: Integer; const B: Integer): Integer;

implementation

function Multiply(const A: Integer; const B: Integer): Integer;
begin
  Result := A * B;
end;

end.
```

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D:

```
module solution;

export int multiply(int a, int b) {
    return a * b;
}
```

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[Powers of 3](#)

JavaScript:

```
function largestPower(n){
    let ret = 0;
    let i = 0;

    if (n == 1) {
        return -1;
    }

    while (true) {
        let tmp;

        tmp = Math.pow(3, i);
        console.log("-----")
        console.log(tmp);
        console.log(n);
        console.log(ret);
        console.log("-----")
```

```

    if (tmp < n) {
        ret = i;
    } else {
        break;
    }
    i++;
}
return ret;
}

```

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7 kyu

[Head, Tail, Init and Last](#)

Ruby:

```

def head array
    array[0]
end

def tail array
    array[1..-1]
end

def init array
    array[0..-2]
end

def last array
    array[-1]
end

```

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[Unexpected parsing](#)

Ruby:

```

def get_status(is_busy)
    status = is_busy ? "busy" : "available"
    ret = Hash.new
    ret['status'] = status
    return ret
end

```

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[Trimming a string](#)

JavaScript:

```

function trim(str, size) {
    if (str.length - size <= 0) {
        return str;
    }

    if (size <= 3) {
        return str.substring(0, size) + "...";
    }

    return str.substring(0, size - 3) + "...";
}

```

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[Fix the loop!](#)

Python:

```

def list_animals(animals):
    list = ''
    for i, name in enumerate(animals):
        list += str(i + 1) + '. ' + name + '\n'
    return list

```

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[Training JS #12: loop statement --for..in and for..of](#)

**JavaScript:**

```
function giveMeFive(obj){
  let ret = []

  for (let i in obj) {
    if (i.length == 5) {
      ret.push(i);
    }
    if (obj[i].length == 5) {
      ret.push(obj[i]);
    }
  }
  return ret;
}
```

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[Miles per gallon to kilometers per liter](#)**Ruby:**

```
def converter(mpg)
  (mpg * 0.35400604).round(2)
end
```

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[SQL: Disorder](#)**SQL:**

```
select number from numbers order by random()
```

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[Fizz Buzz](#)**Ruby:**

```
# return an array
def fizzbuzz(n)
  i = 1
  ret = []
  while i < n + 1
    text = i

    if i % 3 == 0 && i % 5 == 0
      text = "FizzBuzz"
    elsif i % 3 == 0
      text = "Fizz"
    elsif i % 5 == 0
      text = "Buzz"
    end

    ret.push text
    i = i + 1
  end

  ret
end
```

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[Identify Case](#)**Ruby:**

```
def id(c_str)
  has_underscore = false
  has_dash = false
  has_camel_case = false
  puts c_str

  unless c_str.match(/\_/.nil?
    has_underscore = true
  end

  unless c_str.match(/\_{2,\}/.nil?
    return "none"
  end

  unless c_str.match(/-/).nil?
```

```

has_dash = true
end

unless c_str.match(/-{2,}/).nil?
  return "none"
end

unless c_str.match(/[A-Z]/).nil?
  has_camel_case = true
end

unless c_str.match(/[A-Z]{2,}/).nil?
  return "none"
end

if has_underline && ! has_camel_case && ! has_dash
  return "snake"
end

if ! has_underline && has_camel_case && ! has_dash
  return "camel"
end

if ! has_underline && ! has_camel_case && has_dash
  return "kebab"
end

return "none"
end

```

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[Arithmetric Sequence!](#)

JavaScript:

```

var nthterm = function(number, n, c){
let count = 0
while (true) {
  if (count == n) {
    break;
  }
  number = number + c;
  count = count + 1;
}
return number;
}

```

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Python:

```

def nthterm(number, n, c):
    count = 0

    while (True):
        if (count == n):
            break

        number = number + c;
        count = count + 1;

    return number;

```

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[Square Every Digit](#)

Ruby:

```

def square_digits num
  ret = ""
  num.to_s.split("").each{ |char|
    ret += (char.to_i * char.to_i).to_s
  }
  ret.to_i
end

```

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```

def square_digits num
  num = num.to_s
  ret = ""
  num.split("").each{|c|
    ret = ret + (c.to_i ** 2).to_s
  }

```

```
    ret.to_i
end
```

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Python:

```
def square_digits(num):
    num_string = str(num)
    ret = ""

    for c in range(len(num_string)):
        ret = ret + str(int(num_string[c]) ** 2)

    return int(ret)
```

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[Transportation on vacation](#)

Ruby:

```
def rental_car_cost(d)
    puts d
    total = d * 40
    if d >= 7
        total -= 50
    elsif d >= 3
        total -= 20
    end

    total
end
```

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Python:

```
def rental_car_cost(d):
    total = d * 40
    if d >= 7:
        total -= 50
    elif d >= 3:
        total -= 20

    return total
```

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[Calculate Two People's Individual Ages](#)

JavaScript:

```
function getAges(sum,difference) {
    if (difference < 0 || sum < 0) {
        return null;
    }

    let a = (sum + difference) / 2;
    let b = sum - a;

    if (a < 0 || b < 0) {
        return null;
    }

    return [a, b];
};
```

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Python:

```
def get_ages(sum_, difference):
    if (difference < 0 or sum_ < 0):
        return None

    a = (sum_ + difference) / 2;
    b = sum_ - a;

    if a % 1 > 0:
        a = float(a)
```

```

if b % 1 > 0:
    b = float(b)

if (a < 0 or b < 0):
    return None

return (a, b);

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```

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[Number Of Occurrences](#)

JavaScript:

```

Array.prototype.numberOfOccurrences = function() {
    let cont = 0

    for (let i = 0; i < this.length; i++) {
        if (this[i] == arguments[0]) {
            cont = cont + 1
        }
    }

    return cont;
}

```

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Python:

```

def number_of_occurrences(element, sample):
    total = 0

    for i in sample:
        if i == element:
            total = total + 1

    return total

```

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[Replace With Alphabet Position](#)

Ruby:

```

def alphabet_position(text)
    ret = ""
    text = text.gsub /\s+/, ""
    text.downcase!

    text.each_char{|letter|
        ord = letter.ord

        if ord >=97 && ord <= 122
            ret += (ord - 96).to_s + " "
        end
    }

    ret[0..-2]
end

```

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Retired

[Truncate a string!](#)

Ruby:

```

def truncate_string(str,n)
    length = str.length

    ret = str

    if n < length
        if n == 0
            ret = "..."
        elsif n <= 3
            ret = str[0..(n-1)] + "..."
        else
            ret = str[0..(n-4)] + "..."
        end
    end

    ret
end

```

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[Encrypt this!](#)

Ruby:

```
def encrypt_this(text)
  ret = ""
  text.split(" ").each{ |word|
    ret += encrypt(word) + " "
  }
  ret.strip
end

def encrypt text
begin
  if text.length > 2
    tmp = text[1] if text.length > 0
    text[1] = text[-1] if text.length > 0
    text[-1] = tmp if text.length > 0
  end
rescue
end

text[0] = text[0].ord.to_s
text
end
```

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[All Star Code Challenge #22](#)

Ruby:

```
def to_time(seconds)
  minutes = (seconds / 60).floor
  hours = 0
  while minutes > 59
    minutes = minutes - 60
    hours = hours + 1
  end

  hours.to_s + " hour(s) and " + minutes.to_s + " minute(s)"
end
```

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JavaScript:

```
function toTime(seconds) {
  let hours = Math.floor(seconds / 3600)
  seconds = seconds - hours * 3600
  let minutes = Math.floor(seconds / 60)
  return hours + " hour(s) and " + minutes + " minute(s)"
}
```

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[Twisted Sum](#)

Ruby:

```
def solution(n)
  current = 1
  sum = 0
  number_to_sum = 0
  while current <= n
    number_to_sum = current
    if number_to_sum > 9
      num = current.to_s.split("")
      partial_sum = 0
      num.each{|n|
        partial_sum = partial_sum + n.to_i
      }
      sum = sum + partial_sum
    else
      sum = sum + number_to_sum
    end
    current = current + 1
  end
  sum
end
```

- 15 months ago

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[Count the smiley faces!](#)

Ruby:

```
def count_smileys(arr)
  count = 0
  arr.each{ |face|
    next if face.index(":").nil? && face.index(";").nil?
    next if face[1] == " "
    next if face.index("(").nil? && face.index("D").nil?
    count = count + 1
  }
  return count
end
```

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[CompoundArray](#)

Ruby:

```
def compound_array(a, b)
  ret = []
  if a.length > b.length
    array_with_major_length = a
    array_with_minor_length = b
  else
    array_with_major_length = b
    array_with_minor_length = a
  end
  array_with_major_length.each_with_index{ |item, index|
    unless a[index].nil?
      ret.push a[index]
    end
    unless b[index].nil?
      ret.push b[index]
    end
  }
  ret
end
```

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[Area of a Circle](#)

JavaScript:

```
var circleArea = function(radius) {
  if (radius <= 0 || isNaN(radius)) {
    return false;
  }
  return Math.round(Math.PI * radius * radius * 100)/100;
};
```

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7 kyu

[Odd-Even String Sort](#)

Ruby:

```
def sort_my_string(s)
  evens = []
  odds = []
  s.each_char.with_index{|char, index|
    if index % 2 == 0
      evens.push char
    else
      odds.push char
    end
  }
  evens.join("") + " " + odds.join("")
end
```

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```
def sort_my_string(s)
  evens = []
  odds = []

  s.each_char.with_index(s.length){|char, index|
    if index % 2 == 0
      evens.push char
    else
      odds.push(char)
    end
  }

  if s.length % 2 == 0
    i = 0
    ret = ""
    while (i < evens.length)
      ret = ret + evens[i]
      i = i + 1
    end

    ret = ret + " "

    i = 0
    while (i < odds.length)
      ret = ret + odds[i]
      i = i + 1
    end
  else
    i = 0
    ret = ""
    while (i < odds.length)
      ret = ret + odds[i]
      i = i + 1
    end
  end

  ret = ret + " "

  i = 0
  while (i < evens.length)
    ret = ret + evens[i]
    i = i + 1
  end
end

ret
```

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[Training JS #6: Basic data types--Boolean and conditional statements if..else](#)

JavaScript:

```
function trueOrFalse(val) {
  if ((isNaN(val) && val !== undefined) || eval(val) || val == true ) {
    return "true";
  }
  return "false";
}
```

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[Common Substrings](#)

Ruby:

```
def substring_test(str1, str2)
  previous_index = nil
  ret = false
  ret1 = true
  ret2 = true
  str1.downcase!
  str2.downcase!

  return false if str1.empty? || str2.empty?

  str1.each_char { |char|
    index = str2.index(char)

    if !previous_index.nil? && (index == previous_index + 1)
      ret = true
    end

    previous_index = index
  }
  ret
end
```

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[Count the Digit](#)

Ruby:

```
def nb_dig(n, d)
  numbers = []
  count_n = 0
  total_digit = 0

  while count_n <= n
    numbers.push count_n * count_n
    count_n += 1
  end

  numbers.each { |number|
    total_digit += (number.to_s).count(d.to_s)
  }

  total_digit
end
```

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[Debug Sum of Digits of a Number](#)

JavaScript:

```
function getSumOfDigits(integer) {
  let stringOfInteger = integer + "";
  let sum = null;
  const digits = stringOfInteger.split("");

  for (let digit of digits) {
    sum += parseInt(digit);
  }

  return sum;
}
```

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[The unknown but known variables: Addition](#)

JavaScript:

```
function theVar(theVariables) {
  let a = theVariables.charCodeAt(0)-96;
  let b = theVariables.charCodeAt(2)-96;

  return a + b;
}
```

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[Especially Joyful Numbers](#)

PHP:

```
function number_joy(int $n): bool {
  $numbers = str_split($n, 1);

  $sumNumbers = array_sum($numbers);
  $sumNumbersReversed = (int) strrev('' . $sumNumbers);

  return $sumNumbers * $sumNumbersReversed == $n;
}
```

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[simple calculator](#)

PHP:

```
function calculator($a, $b, $sign) {
  if (! is_float($a) && ! is_integer($a)) {
    return "unknown value";
  }

  if (! is_float($b) && ! is_integer($b)) {
    return "unknown value";
  }

  var_dump($a);
  echo $b;
  echo $sign;
```

```

echo "-----";
if ($sign != "+" && $sign != "-" && $sign != "*" && $sign != "/") {
    return "unknown value";
}

if ($sign == "+") {
    return $a + $b;
}
if ($sign == "-") {
    return $a - $b;
}
if ($sign == "*") {
    return $a * $b;
}
return $a / $b;
}

```

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[Discover The Original Price](#)

Ruby:

```

def discover_original_price(discounted_price, sale_percentage)
    # original_price * (1 - sale_percentage/100.0) = discounted_price
    # original_price = discounted_price / (1 - sale_percentage/100.0)
    # Ex 1: 75 / (1 - 25/100)
    ret = (((discounted_price / (1 - sale_percentage/100.0)) * 100).round) / 100.0
    ret
end

```

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[Count consonants](#)

Ruby:

```

def consonant_count(str)
    total = 0
    str.downcase!
    str.each_char{|c|
        total = total + 1 if c != "a" && c != "e" && c != "i" && c != "o" && c != "u" && c != " " && c.ord > 95 && c.ord < 126
    }
    total
end

```

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[greetings with First Name AND Last Name](#)

Ruby:

#using classes is good practice!

```

class Person
    def initialize(fn, ln)
        @first_name = fn
        @last_name = ln
    end

    def greet
        "Hello, #{@first_name} #{@last_name}!"
    end
end

```

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[Kebabize](#)

Ruby:

```

def kebabize(str)
    ret = ""
    str.each_byte do |c|
        if c >= 65 && c <= 90
            c = c + 32
        ret = ret + "-" + c.chr
        elsif (!(c >= 48 && c <= 57))
            ret = ret + c.chr
        end
    end
end

```

```

if ret[0] == "-"
  ret = ret[1..1000]
end

if str[-1] == "-"
  ret = ret[0..-1]
end

ret
end

```

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[Sorting the Odd way!](#)

Ruby:

```

def sort_it_out(array)
  odds = []
  evens = []

  array.each{|i|
    a = i
    i = i.to_i

    if i % 2 == 0
      evens.push a
    else
      odds.push a
    end
  }

  odds.sort + evens.sort.reverse
end

```

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[Multiply the number](#)

JavaScript:

```

function multiply(number){
  let numberString = number + '';
  let possibleCoeficient = parseInt(numberString.length);
  let coeficient;
  if (number >= 0) {
    coeficient = possibleCoeficient;
  } else {
    coeficient = possibleCoeficient - 1;
  }
  return number * Math.pow(5, coeficient);
}

```

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Ruby:

```

def multiply(n)
  n * 5 ** (n.abs.to_s.size.to_i)
end

```

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```

def multiply(n)
  x = 0

  if n < 0
    x = 5 ** (n.to_s.length.to_i - 1)
  else
    x = 5 ** (n.to_s.length.to_i)
  end

  n * x
end

```

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[Cat Years, Dog Years \(2\)](#)

Ruby:

```

def owned_cat_and_dog(cat_years, dog_years)
  return [get_cat_years(cat_years), get_dog_years(dog_years)]
end

```

```

def get_cat_years years
  ret = 0

  if years >= 15
    ret = 1
    years = years - 15

    if years >= 9
      ret = 2
      years = years - 9

      while years >=4
        ret = ret + 1
        years = years - 4
      end
    end
  end

  ret
end

def get_dog_years years
  ret = 0

  if years >= 15
    ret = 1
    years = years - 15

    if years >= 9
      ret = 2
      years = years - 9

      while years >=5
        ret = ret + 1
        years = years - 5
      end
    end
  end

  ret
end

```

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[Title Case](#)

Ruby:

```

def title_case(title, minor_words = '')
  ret = ""
  minor_words = minor_words.split(" ")
  minor_words.each_with_index {|word, index|
    minor_words[index] = word.downcase
  }
  title.split(" ").each {|word|
    word = word.downcase
    if minor_words.index(word).nil?
      word = word.capitalize
    end
    ret = ret + word + " "
  }

  puts minor_words
  return "" if ret.empty?
  ret = ret[0].capitalize + ret[1..99]
  ret.strip
end

```

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[Multiples and Digit Sums](#)

JavaScript:

```

function procedure(n){
  let multiples = getMultiples(n);
  let sum = 0;

  console.log(multiples);

  for (let i of multiples) {
    sum += getSumOfDigits(i);
  }

  return sum;
}

function getMultiples(n) {
  let multiples = [];
  let total = 0;
  let cont = 1;

  while (true) {
    total = cont * n;

```

```

        if (total > 100) {
            break;
        }
        multiples.push(total);
        cont++;
    }
    return multiples;
}

function getSumOfDigits(n) {
    let nString = String(n);
    let sum = 0;

    for (const i of nString) {
        sum += parseInt(i);
    }

    return sum;
}

```

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Retired

[Apartment rent for the couple.](#)

Python:

```
def floor_rent(RentTopFloor, FloorWanted):
    return str(RentTopFloor + (20 - FloorWanted) * 200) + " Dollars"
```

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[Enumerable Magic #4 - True for None?](#)

JavaScript:

```

function none(arr, fun){
    let ret = true;

    for (let i of arr) {
        ret = ret && !fun(i);
    }

    return ret;
}

```

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[Pythagorean Triple](#)

JavaScript:

```

function isPythagoreanTriple(integers) {
    if (Math.pow(integers[0], 2) == Math.pow(integers[1], 2) + Math.pow(integers[2], 2) ){
        return true;
    }
    if (Math.pow(integers[1], 2) == Math.pow(integers[0], 2) + Math.pow(integers[2], 2) ){
        return true;
    }
    if (Math.pow(integers[2], 2) == Math.pow(integers[0], 2) + Math.pow(integers[1], 2) ){
        return true;
    }

    return false;
}

```

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[The Coupon Code](#)

JavaScript:

```

function checkCoupon(enteredCode, correctCode, currentDate, expirationDate) {
    if (enteredCode !== correctCode) {
        return false;
    }

    if (new Date(currentDate) > new Date(expirationDate)) {
        return false;
    }

    return true;
}

```

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TypeScript:

```
export function checkCoupon(enteredCode: string, correctCode: string, currentDate: string, expirationDate: string): boolean {
  if (enteredCode !== correctCode) {
    return false;
  }

  if (new Date(currentDate) > new Date(expirationDate)) {
    return false;
  }

  return true;
}
```

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[Translate English to Code: Usain Bolt](#)

Python:

```
def Faster_Than_Usain_Bolt(person_speed):
    if person_speed > 37.5:
        return "Person";
    elif person_speed < 37.5:
        return "Usain Bolt"

    return "Tie"
```

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[An old taste of JavaScript](#)

JavaScript:

<!---->

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[\[Geometry A-2\]: Length of a vector](#)

Ruby:

```
def vector_length(vector)
  Math.sqrt((vector[1][0] - vector[0][0]) ** 2 + (vector[0][1] - vector[1][1]) ** 2)
end
```

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[Training JS #8: Conditional statement--switch](#)

JavaScript:

```
function howManydays(month){
  var days;
  switch (month) {
    case 1:
      return 31;
    case 2:
      return 28;
    case 3:
      return 31;
    case 4:
      return 30;
    case 5:
      return 31;
    case 6:
      return 30;
    case 7:
      return 31;
    case 8:
      return 31;
    case 9:
      return 30;
    case 10:
      return 31;
    case 11:
      return 30;
    case 12:
      return 31;
  }
}
```

```
    return days;
}
```

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[Training JS #10: loop statement --for](#)

JavaScript:

```
function pickIt(arr){
  var odd=[],even=[];
  for (let item of arr) {
    if (item % 2 == 0) {
      even.push(item);
    } else {
      odd.push(item);
    }
  }
  return [odd,even];
}
```

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[Mirror Byte](#)

JavaScript:

```
function mirrorByte(byteToMirror) {
  byteToMirror = byteToMirror.toString(2);
  byteToMirror = ("0" + byteToMirror).padStart(8, '0');
  var byteMirrored = (byteToMirror).split("").reverse().join("");
  //mirroring code here
  return parseInt(byteMirrored,2);
}
```

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[Double value every next call](#)

PHP:

```
class A
{
  static $value = 0.5;
  public static function getNumber(): int
  {
    self::$value = self::$value*2;
    return self::$value;
  }
}
```

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[Hello new meta-class!](#)

Ruby:

```
module Foo
  def self.const_missing(name)
    "Hello, " + name.id2name
  end
end
```

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[Find the smallest power higher than a given a value](#)

Ruby:

```
def find_next_power(val, pow_)
  intermediate_value = ((val * 1.0) ** (1.0/pow_)).ceil
  if (intermediate_value ** pow_) == val
    intermediate_value += 1
  end
```

```
(intermediate_value ** pow_).floor
end
```

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[Sort Out The Men From Boys](#)

Ruby:

```
def men_from_boys(arr)
  evens = []
  odds = []

  arr.each { |item|
    if item % 2 == 0
      evens.push item
    else
      odds.push item
    end
  }

  evens.uniq.sort + odds.sort.uniq.reverse
end
```

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PHP:

```
function menFromBoys($arr) {
  $evens = [];
  $odds = [];

  foreach($arr as $item) {
    if ($item % 2 == 0) {
      array_push($evens, $item);
    } else {
      array_push($odds, $item);
    }
  }
  sort($evens);
  rsort($odds);

  $evens = array_unique($evens);
  $odds = array_unique($odds);

  $ret = [];
  foreach($evens as $item) {
    array_push($ret, $item);
  }

  foreach($odds as $item) {
    array_push($ret, $item);
  }

  return $ret;
}
```

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[Bumps in the Road](#)

Ruby:

```
def bump(x)
  x = x.gsub '/_/', ""
  x.length <= 15 ? 'Woohoo!' : 'Car Dead'
end
```

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[Char Code Calculation](#)

Ruby:

```
def calc(s)
  puts "s:" + s.to_s
  char_code_number = ""
  char_code_number_without_7 = ""

  s.each_char { |char|
    char_code_number = char_code_number + char.ord.to_s
  }

  char_code_number_without_7 = char_code_number.gsub /7/, "1"
```

```

puts char_code_number_without_7
puts char_code_number

sum1 = 0
sum2 = 0

char_code_number.each_char{|c|
  sum1 = sum1 + c.to_i
}

char_code_number_without_7.each_char{|c|
  sum2 = sum2 + c.to_i
}

sum1 - sum2
end

```

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[Find the calculation type](#)

JavaScript:

```

function calcType(a, b, res) {
  if (a + b == res) {
    return "addition"
  } if (a * b == res) {
    return "multiplication"
  } if (a / b == res) {
    return "division"
  } if (a - b == res) {
    return "subtraction"
}

```

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Ruby:

```

def calc_type(a, b, res)
  if (a + b == res)
    return "addition"
  elsif (a * b == res)
    return "multiplication"
  elsif (a / b == res)
    return "division"
  elsif (a - b == res)
    return "subtraction"
end

```

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TypeScript:

```

export function calcType(a: number, b: number, res: number): string {
  if (a + b == res) {
    return "addition";
  } if (a * b == res) {
    return "multiplication";
  } if (a / b == res) {
    return "division";
  } if (a - b == res) {
    return "subtraction";
}
  return "";
}

```

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[Which are in?](#)

JavaScript:

```

function inArray(array1,array2){
  let results = [];
  for (let searchedString of array1) {
    for (let itemHaystack of array2) {
      if (itemHaystack.indexOf(searchedString) > -1 && results.indexOf(searchedString) == -1) {
        results.push(searchedString);
      }
    }
  }
  results.sort()
  return results
}

```

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TypeScript:

```
export function inArray(a1: string[], a2: string[]): string[] {
    let results = [];
    for (let searchedString of a1) {
        for (let itemHaystack of a2) {
            if (itemHaystack.indexOf(searchedString) > -1 && results.indexOf(searchedString) == -1) {
                results.push(searchedString);
            }
        }
    }
    results.sort();
    return results;
}
```

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[Printing Array elements with Comma delimiters](#)

JavaScript:

```
function printArray(array){
    let ret = "";
    for (let i of array) {
        ret += i + ",";
    }
    return ret.slice(0, ret.length-1)
}
```

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```
function printArray(array){
    let ret = "";
    for (let i of array) {
        ret += i + ",";
    }
    console.log(ret.slice(0, ret.length-1))
    return ret.slice(0, ret.length-1)
}
```

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TypeScript:

```
export function printArray(array:any[]){
    let ret:String = "";
    for (let i of array) {
        ret += String(i) + ",";
    }

    return ret.slice(0, ret.length-1);
}
```

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Retired

[Filling an array \(part 1\)](#)

JavaScript:

```
const arr = N =>{
    cont = 0
    ret = []
    while (cont < N) {
        ret.push(cont)
        cont++
    }
    return ret
}
```

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TypeScript:

```
export const arr = (n: number = 0): number[] => {
    let cont:number = 0;
    let ret:number[] = [];
    while (cont < n) {
        ret.push(cont);
        cont++;
    }
}
```

```

        cont++;
    }
    return ret;
};

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```

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[Grasshopper - Basic Function Fixer](#)

JavaScript:

```
function addFive(num) {
    var total = num + 5
    return total
}
```

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Ruby:

```
def addFive(num)
    num + 5
end
```

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- Discuss

TypeScript:

```
export const addFive = (num : number) : number => {
    let total = num + 5;
    return total;
}
```

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[Exes and Ohs](#)

JavaScript:

```
function XO(str) {
    let countO = 0;
    let countX = 0;

    for (c of str) {
        if (c == "o" || c == "O") {
            countO = countO + 1;
        } else if (c == "x" || c == "X") {
            countX = countX + 1;
        }
    }
    return countO == countX;
}
```

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TypeScript:

```
export function xo(str: string) {
    let countO = 0;
    let countX = 0;

    for (let c of str) {
        if (c == "o" || c == "O") {
            countO = countO + 1;
        } else if (c == "x" || c == "X") {
            countX = countX + 1;
        }
    }
    return countO == countX;
}
```

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[Convert a string to an array](#)

JavaScript:

```
function stringToArray(string){
    return string.split(" ")
```

}

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**Ruby:**

```
def string_to_array(string)
  string.split(" ")
end
```

- 3 years ago
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- [Discuss](#)

**TypeScript:**

```
export function stringToArray(s: string): string[] {
  return s.split(" ");
}
```

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[Computer problem series #1: Fill the Hard Disk Drive](#)**JavaScript:**

```
function save(sizes, hd) {
  let sum = 0;
  let cont = 0;
  for (let fileSize of sizes) {
    sum = sum + fileSize;
    if (sum > hd) {
      break;
    }
    cont = cont + 1;
  }
  return cont;
}
```

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**TypeScript:**

```
export function save(sizes: number[], hd: number) {
  let sum = 0;
  let cont = 0;
  for (let fileSize of sizes) {
    sum = sum + fileSize;
    if (sum > hd) {
      break;
    }
    cont = cont + 1;
  }
  return cont;
}
```

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[Is n divisible by x and y?](#)**Ruby:**

```
def is_divisible(n,x,y)
  n % x == 0 && n % y == 0;
end
```

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```
def is_divisible(n,x,y)
  r1 = n % x
  r2 = n % y
  r1 == 0 and r2 == 0
end
```

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**C:**

```
#include <stdbool.h>
```

```
bool isDivisible(int n, int x, int y) {
    return n % x == 0 && n % y == 0;
}
```

- 5 years ago
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```
#include <stdbool.h>
```

```
bool isDivisible(int n, int x, int y) {
    return (n%y == 0 && n % x == 0 );
}
```

- 5 years ago
- [Refactor](#)
- [Discuss](#)

```
#include <stdbool.h>
```

```
bool isDivisible(int n, int x, int y) {
    int r1 = n % x;
    int r2 = n % y;

    return r1 == 0 && r2 == 0;
}
```

- 5 years ago
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- [Discuss](#)

C#:

```
public class DivisibleNb {
    public static bool isDivisible(long n, long x, long y) {
        return n % x == 0 && n % y == 0;
    }
}
```

- 5 years ago
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JavaScript:

```
function isDivisible(n, x, y) {
    return (n%x == 0 && n%y == 0);
}
```

- 4 years ago
- [Refactor](#)

```
function isDivisible(n, x, y) {
    return n % y == 0 && n % x == 0
}
```

- 5 years ago
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Python:

```
def is_divisible(n,x,y):
    return n % x == 0 and n % y == 0;
```

- 5 years ago
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```
def is_divisible(n,x,y):
    return (n%y == 0 and n % x == 0 );
```

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Java:

```
public class DivisibleNb {
    public static boolean isDivisible(long n, long x, long y) {
        return n % x == 0 && n % y == 0;
    }
}
```

- 5 years ago
- [Refactor](#)

```
public class DivisibleNb {
    public static boolean isDivisible(long n, long x, long y) {
        return n % x == 0 && n % y == 0;
    }
}
```

- 5 years ago

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```
public class DivisibleNb {
    public static boolean isDivisible(long n, long x, long y) {
        return (n%y == 0 && n%x == 0 );
    }
}
```

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CoffeeScript:

```
isDivisible = (n, x, y) -> n % x == 0 && n % y == 0;
```

- 5 years ago
- [Refactor](#)
- [Discuss](#)

Groovy:

```
class Kata {
    static def isDivisible(n, x, y) {
        n % x == 0 && n % y == 0
    }
}
```

- 4 years ago
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TypeScript:

```
export function isDivisible(n:number, x:number, y:number):boolean {
    return n % y == 0 && n % x == 0;
}
```

- 2 years ago
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- [Discuss](#)

6 kyu

[Pyramid Array](#)

JavaScript:

```
function pyramid(n) {
    let r = [];
    for (let i = 1; i <=n ; i++) {
        r.push(build(i));
    }
    return r;
}

function build(n) {
    let r = [];
    for (let i = 1; i <=n ; i++) {
        r.push(1)
    }
    return r;
}
```

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TypeScript:

```
export function pyramid(n: number) {
    let r = [];
    for (let i = 1; i <=n ; i++) {
        r.push(build(i));
    }
    return r;
}

export function build(n: number) {
    let r = [];
    for (let i = 1; i <=n ; i++) {
        r.push(1)
    }
    return r;
}
```

- 2 years ago
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- [Discuss](#)

8 kyu

[Plural](#)

JavaScript:

```
function plural(n) {
  return n != 1;
}
```

- 2 years ago
- [Refactor](#)
- [Discuss](#)

TypeScript:

```
export function plural(n:number):boolean {
  return n != 1;
}
```

- 2 years ago
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- [Discuss](#)

7 kyu

[Truthy and Falsy](#)

JavaScript:

```
const truthy = [1,2,3,4,5];
const falsy = [undefined, 0, false, null, ""];
```

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TypeScript:

```
export const truthy = [1,2,3,4,5];
export const falsy = [undefined, 0, false, null, ""];
```

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7 kyu

[Don't give me five!](#)

JavaScript:

```
function dontGiveMeFive(start, end)
{
  let sum = 0

  let cont = start

  while (cont <= end) {
    if (String(cont).indexOf(5) == -1) {
      sum += 1;
    }
    cont = cont + 1;
  }

  return sum
}
```

- 2 years ago
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- [Discuss](#)

TypeScript:

```
export function dontGiveMeFive(start:number, end:number) : number
{
  let sum = 0;

  let cont = start;

  while (cont <= end) {
    if (String(cont).indexOf("5") == -1) {
      sum += 1;
    }
    cont = cont + 1;
  }

  return sum;
}
```

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8 kyu

[Barking mad](#)

Ruby:

```
class Dog
  def initialize(breed)
```

```

@breed=breed
end

def bark()
  "Woof"
end
end

class Snoop < Dog
end

class Scoobydoo < Dog
end

snoopy=Dog.new("Beagle")

```

scoobydoo=Dog.new("Great Dane")

- 2 years ago
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7 kyu

[Calculate Parity bit!](#)

Ruby:

```

def check_parity(parity, bin_str)
  count_1 = 0
  bin_str.each_char{|bit|
    bit = bit.to_i
    count_1 = count_1 + 1 if bit % 2 == 1
  }

  return 1 if ((parity == "even" && count_1 % 2 == 1) || (parity == "odd" && count_1 % 2 == 0))
  return 0
end

```

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7 kyu

[Pure Functions](#)

TypeScript:

```

type State = {modifier: number}

const state:State = {modifier: 2}

export function solution(arr: number[], options:State) {
  let other: any = Object.assign([],arr);

  for (let i = 0; i < other.length; ++i) {
    other[i] += 2 * options.modifier;
  }

  return other;
}

```

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6 kyu

[Find the odd int](#)

TypeScript:

```

export const findOdd = (xs: number[]): number => {
  let occurrences = {};

  for (let i of xs) {
    if (occurrences[i] == undefined) {
      occurrences[i] = 1;
    } else {
      occurrences[i]++;
    }
  }

  for (let i in occurrences) {
    if (occurrences[i] % 2 == 1) {
      return parseInt(i);
    }
  }
};


```

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JavaScript:

```
function findOdd(A) {
  let occurrences = {}

  for (let i of A) {
    if (occurrences[i] == undefined) {
      occurrences[i] = 1;
    } else {
      occurrences[i]++;
    }
  }

  for (let i in occurrences) {
    if (occurrences[i] % 2 == 1) {
      return parseInt(i);
    }
  }
}
```

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Beta

[Tinder for Programmers](#)

JavaScript:

```
const rateProfile = (profile, swipeLeft, swipeRight) => {
  if (profile.bio.indexOf("JavaScript") > 0) {
    swipeRight();
  } else {
    swipeLeft();
  }
};
```

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TypeScript:

```
import { Profile } from "./preloaded";

export const rateProfile = (profile: Profile, swipeLeft: ()=>void, swipeRight: ()=>void): void => {
  if (profile.bio.indexOf("TypeScript") > 0) {
    swipeRight();
  } else {
    swipeLeft();
  }
}
```

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8 kyu

[Classy Extentions](#)

JavaScript:

```
class Cat extends Animal {
  speak() {
    return this.name + " meows.";
  }
}
```

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7 kyu

[Predict your age!](#)

Ruby:

```
def predict_age(* ages)
  sum = 0
  ages.each {|age|
    sum = sum + (age * age)
  }

  result = Math.sqrt(sum).floor

  result/2
end
```

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6 kyu

[Consecutive strings](#)

PHP:

```
function longestConsec($strarr, $k) {
    if ($k > count($strarr)) {
        return '';
    }

    $longest = '';

    foreach($strarr as $index => $item) {
        $cont = 0;
        $newString = '';
        while ($cont < $k) {
            $newString .= $strarr[$index + $cont];
            $cont++;
        }

        if (mb_strlen($newString) > mb_strlen($longest)) {
            $longest = $newString;
        }
    }

    return $longest;
}
```

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7 kyu

[Insert dashes](#)

Ruby:

```
def insert_dash(num)
    num_string = num.to_s
    sum_to_position = 0
    ret = ""
    previous_odd = false

    num_string.split('').each_with_index {|char_string, index|
        char_integer = char_string.to_i
        if char_integer % 2 == 1
            if previous_odd
                ret = ret + "-" + char_string
            else
                previous_odd = false
                ret += char_string
            end
            previous_odd = true
        else
            previous_odd = false
            ret += char_string
        end
    }
    ret
end
```

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Retired

[Decimal to binary converter](#)

JavaScript:

```
function decToBin(d) {
    if (d == 0) {
        return '0';
    }

    let currentNumber = d;
    let result = "";

    while (currentNumber >= 2) {
        result = ((currentNumber % 2) + "") + result;
        currentNumber = Math.floor(currentNumber / 2)
    }

    if (currentNumber == 1) {
        result = currentNumber + result;
    }

    return result;
}
```

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7 kyu

[Simple Fun #10: Range Bit Counting](#)

Ruby:

```
def range_bit_count(a, b)
    sum = 0
    count = 0
```

```

while a <= b
    number_string = a.to_s(2)
    number_string.each_char{ |n|
        sum = sum + n.to_i
    }
    a = a + 1
end

sum

```

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8 kyu

[Remove the time](#)**PHP:**

```

function shortenToDate($longDate) {
    $position = strpos($longDate, 'am');

    if ($position == false) {
        $position = strpos($longDate, 'pm');
    }

    $test = substr($longDate, 0, strlen($longdate) - 5);
    if ($test[strlen($test) - 1] == ".") {
        return substr($test, 0, strlen($test) - 1);
    } else {
        return $test;
    }
}

```

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7 kyu

[Substituting Variables Into Strings: Padded Numbers](#)**Ruby:**

```

def solution(value)
    "Value is " + value.to_s.rjust(5, "0")
end

```

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7 kyu

[The old switcheroo](#)**Ruby:**

```

def vowel_2_index(string)
    cont = 1
    ret = ""

    string.each_char { |c|
        if c == "a" || c == "e" || c == "i" || c == "o" || c == "u" || c == "A" || c == "E" || c == "I" || c == "O" || c == "U"
            ret += cont.to_s
        else
            ret += c
        end

        cont = cont + 1
    }

    ret
end

```

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7 kyu

[Alphabet symmetry](#)**PHP:**

```

define('INITIAL', 96);

function solve($arr) {
    $arr = toLower($arr);
    $cont = 1;
    $ret = [];

    foreach($arr as $item) {
        $total = 0;
        $cont = 0;
        while ($cont < strlen($item) + 1) {
            if (ord(substr($item, $cont - 1, 1)) == $cont + INITIAL) {

```

```

        $total++;
    }
    $cont++;
}
$ret[] = $total;
}

return $ret;
}

function toLower($arr) {
$ret = [];

foreach($arr as $item) {
    $ret[] = strtolower($item);
}

return $ret;
}

```

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7 kyu

[Maximum Gap \(Array Series #4\)](#)

PHP:

```

function maxGap($nums) {
$maxGap = 0;
sort($nums);
$previous = null;

foreach($nums as $num) {
    if (!is_null($previous)) {
        if ($maxGap < $num - $previous) {
            $maxGap = $num - $previous;
        }
    }
    $previous = $num;
}

return $maxGap;
}

```

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7 kyu

[Numbers to Letters](#)

PHP:

```

function swticher($arr)
{
    $ret = '';
    foreach ($arr as $item) {
        $ret .= chr(-($item-123));
    }
    return str_replace("'", "!", str_replace("-", "?", str_replace("^", " ", $ret)));
}

```

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7 kyu

[Coding Meetup #14 - Higher-Order Functions Series - Order the food](#)

JavaScript:

```

function orderFood(list) {
    let resp = {};
    let ret = {};

    for (let item of list) {
        if (resp[item.meal] == undefined) {
            resp[item.meal] = 1;
        } else {
            resp[item.meal]++;
        }
    }

    return resp
}

```

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6 kyu

[Unique In Order](#)**Ruby:**

```
def unique_in_order(iterable)
  ret = []
  iterable2 = iterable

  if iterable2.is_a? Array
    iterable2 = iterable.join ''
  end

  iterable2.each_char {|char|
    unless ret[-1] == char || ret[-1] == char.to_i # ok, isn't perfect, but to this Kata tests is ok
      if iterable[0].is_a? Integer
        ret.push char.to_i
      else
        ret.push char
      end
    end
  }
  ret
end
```

- 2 years ago
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```
def unique_in_order(iterable)
  ret = []
  iterable2 = iterable

  if iterable2.is_a? Array
    iterable2 = iterable.join ''
  end

  iterable2.each_char {|char|
    unless ret[-1] == char || ret[-1] == char.to_i
      if iterable[0].is_a? Integer
        ret.push char.to_i
      else
        ret.push char
      end
    end
  }
  ret
end
```

- 2 years ago
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- [Discuss](#)

7 kyu

[Find the stray number](#)**Ruby:**

```
def stray (numbers)
  stray = []
  previous = []

  numbers.each {|number|
    unless previous.include? number
      previous.push number
      stray.push number
    else
      stray.delete number
    end
  }

  stray.first
end
```

- 2 years ago
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7 kyu

[Smallest value of an array.](#)**Ruby:**

```
def find_smallest(numbers,to_return)
  if to_return == "value"
    numbers.sort!
    return numbers[0]
  else
    minor = 9999999999
    numbers.each_with_index {|number, index|
      if number < minor
        minor = number
      end
    }
    return numbers.index minor
  end
end
```

- 2 years ago

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7 kyu

[Strong Number \(Special Numbers Series #2\)](#)

Ruby:

```
def strong_num(n)
  sum = 0
  n.to_s.each_char { |char|
    sum = sum + factorial(char_.to_i)
  }
  sum == n ? "STRONG!!!!" : "Not Strong !!"
end

def factorial n
  sum = 1

  while n > 1
    sum = sum * n
    n = n - 1
  end

  sum
end
```

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Retired

[Narcissistic Numbers](#)

Ruby:

```
def is_narcissistic(n)
  sum = 0
  ns = n.to_s
  power = ns.length

  ns.each_char { |char|
    sum += char.to_i ** power
  }

  sum == n ? true : false
end
```

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6 kyu

[Write Number in Expanded Form](#)

Ruby:

```
def expanded_form(num)
  ret = ""
  multiplier = 1

  num.to_s.reverse.each_char{ |char|
    digit = ((char % 10).to_i * multiplier).to_s

    if digit != "0"
      ret = digit + " + " + ret
    end

    multiplier = multiplier * 10
  }

  ret[0...-4]
end
```

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8 kyu

[Training JS #3: Basic data types--String](#)

JavaScript:

```
var a1="A",a2="a",b1="B",b2="b",c1="C",c2="c",d1="D",d2="d",e1="E",e2="e",n1="N",n2="n"
function Dad(){
  //select some variable to combine "Dad"
  return d1 + a2 + d2;
}
function Bee(){
  //select some variable to combine "Bee"
  return b1 + e2 + e2;
}
function banana(){
  //select some variable to combine "banana"
  return b2 + a2 + n2 + a2 + n2 + a2;
}
```

```
//answer some questions if you finished works above
function answer1(){
    //the answer should be "yes" or "no"
    return "no";
}
function answer2(){
    //the answer should be "yes" or "no"
    return "no";
}
function answer3(){
    //the answer should be "yes" or "no"
    return "yes";
}
```

- 2 years ago
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8 kyu

[Training JS #5: Basic data types--Object](#)

JavaScript:

```
function animal(obj){
    if (obj.name != undefined && obj.color != undefined && obj.legs != undefined) {
        return "This " + obj.color + " " + obj.name + " has " + obj.legs + " legs.";
    }
    return false;
}
```

- 2 years ago
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- [Discuss](#)

8 kyu

[Training JS #4: Basic data types--Array](#)

JavaScript:

```
function getLength(arr){
    //return length of arr
    return arr.length;
}
function getFirst(arr){
    //return the first element of arr
    return arr[0];
}
function getLast(arr){
    //return the last element of arr
    return arr[arr.length - 1];
}
function pushElement(arr){
    arr.push("el");
    //push el to arr

    return arr
}
function popElement(arr){
    //pop an element from arr
    arr.pop();

    return arr;
}
```

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[Reverser](#)

Ruby:

```
def reverser(number)
    number.to_s.reverse.to_i
end
```

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- [Discuss](#)

7 kyu

[Squares sequence](#)

Ruby:

```
def squares(x, n)
    return [] if n <= 0
    ret = [x]
    cont = 1

    while (cont < n)
        x = x ** 2
        ret.push(x)
        cont += 1
    end
    return ret
end
```

```

    ret.push(x)
    cont = cont + 1
end

ret
end

```

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6 kyu

[+1 Array](#)

Ruby:

```

def up_array(arr)
  if arr.class != Array || arr.empty?
    return nil
  end

  arr = arr.reverse
  ret = []
  accumulator = 1

  arr.each { |i|
    if i < 0 || i > 9 || i.class == String || i == "!"
      return nil
    end

    value = i + accumulator

    if (value >= 10)
      value = value % 10
    else
      accumulator = 0
    end

    ret.push value
  }

  if accumulator == 1
    ret.push(1)
  end

  ret.reverse
end

```

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Draft

[Alternating array index](#)

Python:

```

def array_index(arr):
  cont = 0
  ret = []
  for item in arr:
    if cont % 2 == 0:
      print(item)
      ret.append(item + cont)
    else:
      ret.append(item - cont)
    cont = cont + 1

  return ret

```

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7 kyu

[SevenAte9](#)

Ruby:

```

def seven_ate9(str)
  ret = ""
  prev = ""

  arr_str = str.split("")

  arr_str.each_with_index{|char, index|
    unless char == "9" and arr_str[index - 1] == "7" and arr_str[index + 1] == "7"
      ret += char
    end
  }
  ret
end

```

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8 kyu

[Duck Duck Goose](#)

Ruby:

```
def duck_duck_goose(players, goose)
  goose = (goose) % players.length
  players[goose -1].name
end
```

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8 kyu

[Who is going to pay for the wall?](#)

Ruby:

```
def who_is_paying(name)
  reduced = name[0..1]
  return name == reduced ? [name] : [name, reduced]
end
```

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- [Discuss](#)

7 kyu

[By 3, or not by 3? That is the question . . .](#)

PHP:

```
function divisibleByThree($str) {
  $sum = 0;
  $split = str_split($str);

  foreach ($split as $item) {
    $sum += (int) $item;
  }

  if ($sum % 3 === 0) {
    return true;
  }

  return false;
}
```

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7 kyu

[Likes Vs Dislikes](#)

Python:

```
def like_or_dislike(lst):
    count_like_in_a_row = 0
    count_dislike_in_a_row = 0
    previous = ""

    for i in lst:
        if i == previous:
            if previous == "Like":
                count_like_in_a_row = count_like_in_a_row + 1
            else:
                count_dislike_in_a_row = count_dislike_in_a_row + 1
        else:
            if i == "Like":
                count_like_in_a_row = 1
            else:
                count_dislike_in_a_row = 1

        previous = i

    print(count_dislike_in_a_row)
    if previous == "Like" and count_like_in_a_row % 2 == 1:
        return "Like"
    elif previous == "Dislike" and count_dislike_in_a_row % 2 == 1:
        return "Dislike"

    return "Nothing"
```

- 2 years ago
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7 kyu

[Sort the Gift Code](#)

Ruby:

```
def sort_gift_code code
  code.split("").uniq.sort.join("")
end
```

- 2 years ago
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- [Discuss](#)

Retired

[Lost numbers](#)

JavaScript:

```
const findAndSumm = (arr1, arr2) => {
  let num1 = 0;
  let num2 = 0;

  while (true) {
    if (typeof arr1 !== "object") {
      if (typeof arr1 === "undefined") {
        arr1 = 0;
      }
      num1 = arr1;
      break;
    } else {
      arr1 = arr1[0];
    }
  }

  while (true) {
    if (typeof arr2 !== "object") {
      if (typeof arr2 === "null") {
        arr2 = 0;
      }
      num2 = arr2;
      break;
    } else {
      arr2 = arr2[0];
    }
  }

  return num1 + num2;
}
```

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Draft

[New Wordle Order](#)

JavaScript:

```
function wordle(word, guess){
  let guess_array = guess.split("");

  let ret = [];
  for (let index in guess_array) {
    if (guess_array[index] == word[index]) {
      ret.push("green");
    } else if (word.indexOf(guess_array[index]) != -1) {
      ret.push("yellow");
    } else {
      ret.push("black");
    }
  }

  return ret;
}
```

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[Take a Number And Sum Its Digits Raised To The Consecutive Powers And ....!Eureka!!](#)

Ruby:

```
def sum_dig_pow(a, b)
  ret = []
  while a <= b
    cont = 1
    sum = 0

    a.to_s.each_char{ |char|
      sum += char.to_i ** cont
      cont = cont + 1
    }

    ret.push(sum) if sum == a
    a = a + 1
  end
  ret
end
```

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7 kyu

[Length and two values.](#)

JavaScript:

```
function opposite(n, firstValue, secondValue){
  let i = 0;
  let ret = [];

  while (i < n) {
    if (i % 2 == 0) {
      ret.push(firstValue);
    } else {
      ret.push(secondValue);
    }
    i++;
  }

  return ret;
}
```

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7 kyu

[Regex validate PIN code](#)

Ruby:

```
def validate_pin pin
  return false unless (/^[\d]*$/.match pin)[0]
  return false unless (/^[\d]*$/.match pin)[0] == pin
  size = pin.strip.size
  size = size + 1 if pin.to_i < 0
  return false if pin.to_i == 0 and pin != "0000" and pin != "000000"
  return true if size==4 || size==6

  false
end
```

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7 kyu

[Initialize my name](#)

JavaScript:

```
function initializeNames(name){
  let ret = ""
  let parts = name.split(" ")

  for (let index in parts) {
    if ((index != 0) && (index != parts.length - 1)) {
      ret += parts[index][0].toUpperCase() + ". "
    } else {
      ret += parts[index] + " "
    }
  }
  ret = ret.trim()
  return ret
}
```

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7 kyu

[Interview Question \(easy\).](#)

Ruby:

```
def get_letters(city)
  city = city.downcase.gsub(/\s*/, "")
  asterisks = {}

  city.each_char { |char|
    unless asterisks[char].nil?
      asterisks[char] = asterisks[char] + "*"
    else
      asterisks[char] = ":"*
    end
  }

  ret = ""
  asterisks.each_with_index{|asterisks, index|
    ret += asterisks[0] + asterisks[1] + ","
  }
  ret[0...-2]
end
```

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7 kyu

[Minimum Steps \(Array Series #6\)](#)

PHP:

```
function minimumSteps($nums, $value) {
    sort($nums);
    $cont = 0;
    $sum = $nums[0] + $nums[1];
    $cont = 0;
    echo $sum;
    var_dump($nums);

    while ($sum <= $value) {
        echo "x";
        if ($cont == 0) {
            $cont = 1;
        }
        if ($cont > 0 && $sum == $value) {
            break;
        }
        $cont++;
        $sum += $nums[$cont];
    }

    return $cont;
}
```

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Retired

[Thinkful - List Drills: Longest word](#)

PHP:

```
function longest($words) {
    $longest = 0;

    foreach($words as $word) {
        $length = strlen($word);

        if ($length > $longest) {
            $longest = $length;
        }
    }

    return $longest;
}
```

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8 kyu

[UEFA EURO 2016](#)

Ruby:

```
def uefa_euro_2016(teams, scores)
  if scores[0] == scores[1]
    return "At match " + teams[0] + " - " + teams[1] + ", teams played draw."
  elsif scores[0] > scores[1]
    return "At match " + teams[0] + " - " + teams[1] + ", " + teams[0] + " won!"
  else
    return "At match " + teams[0] + " - " + teams[1] + ", " + teams[1] + " won!"
  end
end
```

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[Coding Meetup #2 - Higher-Order Functions Series - Greet developers](#)

PHP:

```
function greet_developers($a) {
    foreach ($a as &$amp;item) {
        $item['greeting'] = 'Hi ' . $item['first_name'] . ', what do you like the most about ' . $item['language'] . '?';
    }
    return $a;
}
```

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[Fix the Bugs \(Syntax\) - My First Kata](#)

PHP:

```
function my_first_kata($a, $b) {
    if ((!is_int($a) and !is_float($a)) or (!is_int($b) and !is_float($b))) {
        return false;
    } else {
        return $a % $b + $b % $a;
    }
}
```

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[Greet Me](#)

PHP:

```
function greet($name) {
    return "Hello " . ucfirst(strtolower($name)) . "!";
}
```

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[Leonardo Dicaprio and Oscars](#)

Ruby:

```
def leo(oscar)
    if oscar == 88
        ret = "Leo finally won the oscar! Leo is happy"
    elsif oscar == 86
        ret = "Not even for Wolf of wallstreet?!"
    elsif oscar < 88
        ret = "When will you give Leo an Oscar?"
    else
        ret = "Leo got one already!"
    end

    ret
end
```

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[Triangular Treasure](#)

Ruby:

```
# Return the nth triangular number
def triangular( n )
    return 0 if n < 0

    cont = 1
    ret = 0
    i = 0

    while cont <= n
        i += 1
        cont += 1
        ret += i
    end

    ret
end
```

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[Classy Classes](#)

Ruby:

```
class Person
    def initialize name, age
        @name = name
        @age = age
    end

    def info
        "#{@name}s age is #{@age}"
    end
end
```

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[Regexp Basics - is it a digit?](#)

Ruby:

```
class String
  def digit?
    return true if self == "0"
    self.to_i > 0 && self.size === 1
  end
end
```

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6 kyu

[Arrays Similar](#)

JavaScript:

```
function arraysSimilar(arr1, arr2) {
  arr1 = arr1.sort()
  arr2 = arr2.sort()

  for (let i in arr2) {
    if (arr1[i] !== arr2[i]) {
      return false;
    }
  }

  return true;
}
```

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[Shifty Closures](#)

JavaScript:

```
var greet_abe = function() {
  let name = 'Abe'
  return "Hello, " + name + '!';
};

var greet_ben = function() {
  let name = 'Ben';
  return "Hello, " + name + '!';
};
```

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[Mr. Freeze](#)

JavaScript:

```
// mark the MrFreeze object instance as frozen
Object.freeze(MrFreeze);
```

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[Playing with cubes I](#)

Ruby:

```
# Code the Cube ^-^
# Build your Cube without using the initialize function
# Your cube needs the following:
#   # side = an integer representing the length of the side of the cube
#   # get_side = a function to return side
#   # set_side = a function accepting an int; set side to that int

class Cube
  @side = 0

  def set_side side
    @side = side
  end

  def get_side
    return @side.nil? ? 0 : @side
  end
end
```

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[Ordered Count of Characters](#)

Ruby:

```
def ordered_count(str)
  str_array = str.split('')
  pre_ret = []
  ret = []
  count = []

  str.each_char{|char|
    unless pre_ret.include? char
      pre_ret.push char
      count.push str_array.count char
    end
  }
  count.each_with_index{ |n, index|
    ret.push [pre_ret[index], n]
  }

  ret
end
```

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[Welcome to the City](#)

Ruby:

```
def say_hello(name, city, state)
  "Hello, " + name.join(" ") + "! Welcome to " + city + ", " + state + "!"
end
```

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[Contamination #1 -String-](#)

Ruby:

```
def contamination(text, char)
  return "" if text.empty? || char.empty?

  ret = ""

  text.each_char{ |c|
    ret = ret + char
  }
  ret
end
```

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[Disarium Number \(Special Numbers Series #3\)](#)

Ruby:

```
def disarium_number(n)
  n = n.to_s

  sum = 0
  i = 1
  n.each_char{ |char|
    sum += char.to_i ** i
    i = i + 1
  }

  sum.to_s == n ? "Disarium !!" : "Not !!"
end
```

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[Exclamation marks series #17: Put the exclamation marks and question marks on the balance - are they balanced?](#)

Ruby:

```
def balance(left, right)
  s1 = 0
```

```
s2 = 0

left.each_char { |char|
  if char == "?"
    s1 += 3
  else
    s1 += 2
  end
}

right.each_char { |char|
  if char == "?"
    s2 += 3
  else
    s2 += 2
  end
}

if s1 > s2
  return "Left"
elsif s1 < s2
  return "Right"
end
"Balance"
end
```

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[Is every value in the array an array?](#)

PHP:

```
function arr_check(array $a): bool {
  foreach ($a as $item) {
    if (gettype($item) != "array") {
      return false;
    }
  }
  return true;
}
```

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[Exclamation marks series #5: Remove all exclamation marks from the end of words](#)

PHP:

```
function remove(string $s): string {
  $arrayString = explode(' ', $s);

  $cont = 0;
  while (count($arrayString) > $cont) {
    if ($arrayString[$cont][-1] == "!") {
      $arrayString[$cont] = substr($arrayString[$cont], 0, -1);
    } else {
      $cont++;
    }
  }

  return implode(' ', $arrayString);
}
```

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[Age Range Compatibility Equation](#)

PHP:

```
function datingRange($age) {
  $min = 0;
  $max = 0;

  if ($age <= 14) {
    $min = $age - 0.10 * $age;
    $max = $age + 0.10 * $age;
  } else {
    $min = $age/2 + 7;
    $max = ($age - 7) * 2;
  }

  return floor($min) . '-' . floor($max);
}
```

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[Add new item \(collections are passed by reference\)](#)**Ruby:**

```
def add_extra(list_of_numbers)
  lon = list_of_numbers.dup
  lon.unshift(1)
  lon
end
```

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[Training JS #1: create your first JS function and print "Hello World!"](#)**JavaScript:**

```
function helloWorld() {
  var str = "que bosta...";
  console.log("Hello World!");
  return str;
}
```

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[Find the lucky numbers](#)**PHP:**

```
function filter_lucky(array $a): array {
  $ret = [];
  foreach ($a as $item) {
    if (strpos((string) $item, '7') !== false) {
      $ret[] = $item;
    }
  }
  return $ret;
}
```

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[Exclamation marks series #13: Count the number of exclamation marks and question marks, return the product](#)**PHP:**

```
function product(string $s): int {
  $lengthTotal = strlen($s);
  $lengthExclamation = $lengthTotal - strlen(str_replace('!', '', $s));
  $lengthQuotes = $lengthTotal - strlen(str_replace('?', '', $s));

  return $lengthExclamation * $lengthQuotes;
}
```

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[Calculate mean and concatenate string](#)**PHP:**

```
function mean(array $a): array {
  $sum = 0;
  $string = '';

  foreach($a as $item) {
    $sum += (float) $item;

    if (! ((float) $item == $item)) {
      $string .= $item;
    }
  }

  return [$sum / 10, $string];
}
```

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[Number of Decimal Digits](#)

Java:

```
public class DecTools {
    public static int Digits(long n) {
        return String.valueOf(n).length();
    }
}
```

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[Negation of a Value](#)

Dart:

```
bool negationValue(String str, bool val) {
    if (str.length % 2 == 0) {
        return val;
    }
    return !val;
}
```

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[Divide and Conquer](#)

Ruby:

```
def div_con(x)
    sum = 0
    minus = 0

    x.each { |i|
        if i.is_a? Numeric
            sum += i
        else
            minus += i.to_i
        end
    }

    sum - minus
end
```

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[Find Nearest square number](#)

Ruby:

```
def nearest_sq(n)
    return n if Math.sqrt(n) % 1 == 0

    minor = n
    while true
        if Math.sqrt(minor) % 1 == 0
            break
        end
        minor = minor - 1
    end

    major = n
    while true
        if Math.sqrt(major) % 1 == 0
            break
        end
        major = major + 1
    end

    diff_minor = n - minor
    diff_major = major - n

    diff_major <= diff_minor ? major : minor
end
```

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[Fix your code before the garden dies!](#)

Ruby:

```
def rain_amount(mm)
    if (mm < 40)
        return "You need to give your plant " + (40 - mm).to_s + "mm of water"
    else
        return "Your plant has had more than enough water for today!"
    end

```

```
end
end
```

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[Spacify](#).

Ruby:

```
def spacify(str)
  ret = "";
  str.each_char { |c|
    ret += c + " "
  }
  ret[0..-2]
end
```

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[Basic subclasses - Adam and Eve](#)

Ruby:

```
# define your classes
class Human
end
class Man < Human
end
class Woman < Human
end

def god
  [Man.new, Woman.new]
end
```

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[String Templates - Bug Fixing #5](#)

Ruby:

```
def build_string(*args)
  string_args = ""
  args.each { |arg|
    string_args += arg + ", "
  }
  string_args = string_args[0..-3]
  "I like " + string_args + "!"
```

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[Unfinished Loop - Bug Fixing #1](#)

Ruby:

```
def create_array(n)
  res = []
  i = 1
  while i <= n
    res += [i]
    i = i + 1
  end
  return res
end
```

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Retired

[Playing with Streams: Sum](#)

Java:

```
import java.util.*;

public class Kata {
  public static int sum(List<Integer> list) {
    Integer ret = 0;
    for (Integer item: list) {
      ret += item;
```

```

    }
    return ret;
}
}

```

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[Nth Smallest Element \(Array Series #4\)](#)

Ruby:

```
def nth_smallest(arr, pos)
  arr.sort[pos-1]
end
```

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7 kyu

[Indexed capitalization](#)

Ruby:

```
def capitalize(s,ind)
  ret = ""

  index = -1
  s.each_char { |c|
    if ind.include? index
      ret += c.capitalize
    else
      ret = ret + c
    end if
    index = index + 1
  }
  ret
end
```

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[Grasshopper - Combine strings](#)

Ruby:

```
def combine_names first_name, last_name
  first_name + " " + last_name
end
```

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[Find the nth Digit of a Number](#)

Ruby:

```
def find_digit(num, nth)
  num = num.to_s.reverse!
  return -1 if nth < 1
  num.slice(nth - 1,1).to_i
end
```

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[The Vowel Code](#)

Ruby:

```
def encode(s)
  s.gsub! '/a/', "1"
  s.gsub! '/e/', "2"
  s.gsub! '/i/', "3"
  s.gsub! '/o/', "4"
  s.gsub! '/u/', "5"
  puts s
end

def decode(s)
  s.gsub! '/1/', "a"
  s.gsub! '/2/', "e"
  s.gsub! '/3/', "i"
  s.gsub! '/4/', "o"
end
```

```
s.gsub! /5/, "u"
s
```

end

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[Flatten](#)

Ruby:

```
def flatten(array)
  ret = []
  array.each{ |item|
    if item.is_a? Array
      item.each { |subitem|
        ret.push subitem
      }
    else
      ret.push item
    end
  }
  ret
end
```

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[Grader](#)

Ruby:

```
def grader(score)
  if score > 1 || score < 0.6
    return "F"
  elsif score >= 0.9
    return "A"
  elsif score >= 0.8
    return "B"
  elsif score >= 0.7
    return "C"
  elsif score >= 0.6
    return "D"
  end
end
```

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8 kyu

[Training JS #9: loop statement --while and do..while](#)

JavaScript:

```
function padIt(str,n){
  let turn = "left";
  let cont = 0;
  let ret = str;

  while (cont != n) {
    if (turn == "left") {
      turn = "right";
      ret = "*" + ret;
    } else {
      turn = "left";
      ret = ret + "*";
    }
    cont++;
  }

  return ret;
}
```

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[What is type of variable?](#)

JavaScript:

```
function type(value) {
  if (value instanceof Array) {
    return 'array';
  }
  if (value instanceof Date) {
    return 'date';
  }
}
```

```
if (value === null) {
    return 'null';
}
return typeof value;
}
```

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7 kyu

[Greatest common divisor](#)

JavaScript:

```
function mygcd(x,y){
let cont = 1;
let common = 0;

while (cont <= x + 1 && cont <= y + 1) {
    if (x % cont == 0 && y % cont == 0) {
        common = cont;
    }
    cont++;
}

return common;
}
```

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[BASIC: Making Six Toast.](#)

Ruby:

```
def six_toast(num)
  if num < 6
    return num
  else
    return num - 6
  end
end
```

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Retired

[Redact a Key-Value Pair from a Hash in Ruby – "The Holy Rail" – unquest\(\)](#)

Ruby:

```
def unquest(prommer)
  prommer.delete :quest
  prommer
end
```

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Beta

[Album lengths](#)

JavaScript:

```
function albumLength(trackLengths) {
  let hours = 0;
  let minutes = 0;
  let seconds = 0;
  for (let track of trackLengths) {
    let trackData = track.split(":");

    if (!isNaN(seconds)) {
      seconds = seconds + parseInt(trackData[2]);
    }

    if (!isNaN(minutes)) {
      minutes = minutes + parseInt(trackData[1]);
    }

    if (!isNaN(hours)) {
      hours = hours + parseInt(trackData[0]);
    }
  }

  let prevHours = hours;
  let prevSeconds = seconds;

  seconds = seconds % 60;
  let prevMinutes = minutes + Math.floor(parseInt(prevSeconds / 60));
  minutes = prevMinutes % 60;
  hours = hours + Math.floor(parseInt(prevMinutes / 60));
}
```

```

if (hours < 10) {
    hours = '0' + hours;
}
if (minutes < 10) {
    minutes = '0' + minutes;
}
if (seconds < 10) {
    seconds = '0' + seconds;
}

return hours + ":" + minutes + ":" + seconds;
}

```

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Retired

[Percentage of primary color in HEX color](#)

TypeScript:

```

type PrimaryColorName = "red" | "green" | "blue";

// return the two oldest/oldest ages within the array of ages passed in.
// it should return the two ages as a sorted array, youngest age first
export function getPrimaryColorPercentage(color: string, primaryColorName: PrimaryColorName): number {
    if (color.length == 4) {
        color = color.substring(0,2) + "0" + color.substring(2,3) + "0" + color.substring(3,4) + "0"
    }
    let red = parseInt(color.substring(1,3), 16)
    let green = parseInt(color.substring(3,5), 16);
    let blue = parseInt(color.substring(5,7), 16);
    let alpha = parseInt(color.substring(7,9), 16);
    if (isNaN(alpha)) {
        alpha = 0;
    }
    let total = red + green + blue;

    let pctAlpha = Math.round((alpha / 255) * 100) / 100;
    if (pctAlpha == 0) {
        pctAlpha = 1;
    }

    if (primaryColorName == "red") {
        return Math.round((red / total) * 100) * pctAlpha;
    } else if (primaryColorName == "green") {
        return Math.round((green / total) * 100) * pctAlpha;
    } else {
        return Math.round((blue / total) * 100) * pctAlpha;
    }
}

```

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8 kyu

[Powers of 2](#)

Ruby:

```

def powers_of_two(n)
    ret = []
    while (n > -1)
        ret.push(2**n)
        n = n - 1
    end
    ret.reverse
end

```

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JavaScript:

```

function powersOfTwo(n){
    let ret = [];
    for (let i=0; i <= n; i++) {
        ret.push(Math.pow(2, i));
    }
    console.log(ret);
    return ret;
}

```

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Retired

[Implement isEmpty function](#)

JavaScript:

```
const isEmpty = (obj) => Object.keys(obj).length == 0
```

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8 kyu

[Semi-Optional](#)

JavaScript:

```
function wrap(value) {
  return {
    value:value
  };
}
```

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7 kyu

[Most digits](#)

JavaScript:

```
function findLongest(array){
  let seleccionado = 0;

  for (item of array) {
    if (seleccionado === null || item.toString().length > seleccionado.toString().length) {
      seleccionado = item;
    }
  }

  return seleccionado;
}
```

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Ruby:

```
def find_longest(arr)
  max_length = 0
  max_item = 0
  arr.each { |item|
    if item.to_s.size > max_length
      max_length = item.to_s.size
      max_item = item
    end
  }
  max_item
end
```

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7 kyu

[Number-Star ladder](#)

Ruby:

```
def pattern(n)
  current = 1
  ret = ''

  while current <= n
    if current == 1
      ret = ret + "1\n"
      current = current + 1
    else
      ret = ret + "1"

      x = 1
      while x < current
        ret = ret + '*'
        x = x + 1
      end

      ret = ret + current.to_s
      current = current + 1

      if current <= n
        ret = ret + "\n"
      end
    end
  end

  ret
end
```

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7 kyu

[Remove All The Marked Elements of a List](#)

Ruby:

```
class Array
  def remove_(integer_list, values_list)
    ret = []
    integer_list.each { |number|
      unless values_list.include? number
        ret.push number
      end
    }
    ret
  end
end
```

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7 kyu

[Password Hashes](#)

Ruby:

```
def pass_hash(str)
  Digest::MD5.hexdigest(str)
end
```

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Retired

[Case Swapping](#)

Ruby:

```
def swap(string)
  ret = ""
  string.split("").each { |letter|
    if letter.ord < 97
      ret = ret + letter.downcase
    else
      ret = ret + letter.upcase
    end
  }
  ret
end
```

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7 kyu

[The Office IV - Find a Meeting Room](#)

Ruby:

```
def meeting(rooms)
  rooms.each_with_index { |room, index|
    return index if room == "0"
  }
  'None available!'
end
```

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7 kyu

[Filter Long Words](#)

Ruby:

```
def filter_long_words(sentence, n)
  ret = []
  sentence.split(" ").each { |word|
    ret.push(word) if word.length > n
  }
  ret
end
```

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7 kyu

[Array Leaders \(Array Series #3\)](#)

PHP:

```
function arrayLeaders($numbers) {
    $ret = [];
    $total = count($numbers);

    foreach($numbers as $index => $number) {
        $sum = 0;
        for ($i = $index + 1; $i < $total; $i++) {
            $sum += $numbers[$i];
        }

        if ($number > $sum) {
            array_push($ret, $number);
        }
    }
    return $ret;
}

// your code here
}
```

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7 kyu

[Sum of all arguments](#)

PHP:

```
function sum() {
    $sum = 0;

    foreach (func_get_args() as $arg) {
        $sum = $sum + $arg;
    }

    return $sum;
}
```

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7 kyu

[Row Weights](#)

Ruby:

```
def row_weights(array)
    t1 = 0
    t2 = 0

    array.each_with_index { |item, index|
        if index % 2 == 0
            t1 += item
        else
            t2 += item
        end
    }

    [t1, t2]
end
```

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[All Star Code Challenge #14 - Find the median](#)

Ruby:

```
def median(array)
    array.sort!
    lp2 = array.length % 2
    if (lp2 == 0)
        return (array[(array.length / 2) - 1] + array[(array.length / 2)]) / 2.0
    end
    array[(array.length / 2.0)]
end
```

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```
def median(array)
    array = array.sort!
    lp2 = array.length % 2
    if (lp2 == 0)
        return (array[(array.length / 2) - 1] + array[(array.length / 2)]) / 2.0
    end
    array[(array.length / 2.0)]
end
```

- 2 years ago

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```
def median(array)
  array.sort!

  if array.length % 2 == 1
    return array[(array.length / 2)]
  end

  return (array[(array.length / 2)] + array[(array.length / 2) - 1]) / 2.0
end
```

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[All Star Code Challenge #18](#)

Ruby:

```
def str_count(word, letter)
  counter = 0
  word.split("").each {|l|
    counter = counter + 1 if letter == l
  }
  counter
end
```

- 2 years ago
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- [Discuss](#)

```
def str_count(word, letter)
  cont = 0

  word.each_char { |l|
    if l == letter
      cont = cont + 1
    end
  }

  cont
end
```

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8 kyu

[Sum of Multiples](#)

Ruby:

```
def sum_mul(n, m)
  puts "n:" + n.to_s
  puts "m:" + m.to_s
  current = n
  return "INVALID" if n <= 0 || m <= 0
  sum = 0
  while current < m
    sum = sum + current
    current = current + n
  end
  return "INVALID" if sum == 0
  sum
end
```

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7 kyu

[Scoring Tests](#)

Ruby:

```
def score_test(tests, right, omit, wrong)
  answers = []
  answers.push(0)
  answers.push(0)
  answers.push(0)

  tests.each { |answer_result|
    answers[answer_result] += 1
  }

  answers[0] * right + answers[1] * omit - answers[2] * wrong
end
```

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7 kyu

[Compress sentences](#)

JavaScript:

```
function compress(sentence) {
    let words = sentence.split(" ");
    sentence = "";
    for (let word of words) {
        sentence = sentence + " " + word.toLowerCase();
    }
    sentence = sentence.slice(1, sentence.length);

    words = sentence.split(" ");
    let ret = "";

    let wordsIndex = [...new Set(words)]

    let count = 0;
    for (let word of words) {
        ret = ret + wordsIndex.indexOf(word);
    }
    return ret;
}
```

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7 kyu

[Ones' Complement](#)

Ruby:

```
def ones_complement(binary_number)
    ret = ""
    binary_number.split("").each { |i|
        if i == "0"
            ret = ret + "1"
        else
            ret = ret + "0"
        end
    }
    ret
end
```

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7 kyu

[Move 10](#)

JavaScript:

```
function moveTen(s){
    let sArray = s.split("");
    let ret = "";
    for (let char of sArray) {
        let ord = char.charCodeAt(0);
        let plus10 = ord + 10;
        if (plus10 > 122) {
            plus10 = plus10 - 26;
        }
        ret = ret + String.fromCodePoint(plus10);
    }
    return ret;
}
```

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Retired

[Function 3 - multiplying two numbers](#)

Ruby:

```
def multiply a, b
  a * b
end
```

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PHP:

```
function multiply($a, $b) {
    return $a * $b;
}
```

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JavaScript:

```
function multiply(a, b) {
    return a * b;
}
```

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```
function multiply(a, b) {
    return a * b;
}
```

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C:

```
int multiply(int x, int y) {
    return x * y;
}
```

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Java:

```
public class Kata {
    public static int multiply(int num1, int num2) {
        return num1 * num2;
    }
}
```

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```
public class Kata {
    public static int multiply(int num1, int num2) {
        return num1 * num2;
    }
}
```

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Python:

```
#your code here
def multiply(a, b):
    return a * b
```

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C#:

```
public class Kata
{
    public static int Multiply(int a, int b)
    {
        return a * b;
    }
}
```

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Swift:

```
func multiply(_ a: Double, _ b: Double) -> Double {
    return a * b;
}
```

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7 kyu

[What comes after?](#)

Ruby:

```
def comes_after(str,letter)
  ret = ""
  str.split("").each_with_index{|l, key|
    if l.upcase == letter.upcase
      if key + 1 < str.length and ((str[key+ 1].ord >= 97 and str[key+ 1].ord <=122) or (str[key+ 1].ord >= 65 and str[key+ 1].ord <=90))
        ret = ret + str[key+ 1]
      end
    end
  }
  ret
end
```

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8 kyu

[Merging sorted integer arrays \(without duplicates\)](#)

Ruby:

```
def merge_arrays(a, b)
  (a + b).sort.uniq
end
```

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6 kyu

[Help the bookseller!](#)

Ruby:

```
def stockList(listOfArt, listOfCat)
  ret = ""
  accumulator = {}
  listOfCat.each{|category|
    accumulator[category] = 0
  }
  listOfCat.each{|category|
    listOfArt.each{|book|
      if book[0] == category
        value = "0"
        book.each_char{|char|
          if char.ord >=48 && char.ord <= 57
            value = value + char
          end
        }
        accumulator[book[0]] = 0 if accumulator[book[0]].nil?
        accumulator[book[0]] += value.to_i
      end
    }
  }
  may_ret = false
  accumulator.each_with_index{|value, key|
    ret = ret + "(" + value[0] + " : " + value[1].to_s + ") - "
    if value[1] > 0
      may_ret = true
    end
  }
  if may_ret
    ret[0..-4]
  else
    ""
  end
end
```

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7 kyu

[Digits explosion](#)

Ruby:

```
def explode(s)
  ret = ""
  s.split("").each{|n|
    ret = (ret + (n * n.to_i)).to_s
  }
  ret
end
```

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7 kyu

[Remove consecutive duplicate words](#)

**Ruby:**

```
def remove_consecutive_duplicates(s)
  ret = []
  previous = ""

  s.split(" ").each{|w|
    unless previous == w
      ret.push(w)
    end
    previous = w
  }

  ret.join(" ").strip
end
```

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8 kyu

[Yield to the Block](#)**Ruby:**

```
def compute
  return "Do not compute" unless block_given?
  "Running the block"
end
```

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7 kyu

[Largest Elements](#)**JavaScript:**

```
function largest(n, xs){
  xs.sort((a, b) => a - b);
  xs.reverse()

  let ret = [];

  for (let i = 0; i < n ; i++) {
    ret.push(xs[i]);
  }

  ret = ret.sort((a, b) => a - b);

  return ret;
}
```

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7 kyu

[KISS - Keep It Simple Stupid](#)**JavaScript:**

```
function isKiss( words ){
  words = words.split(" ");
  for (let word of words) {
    if (word.length > words.length) {
      return "Keep It Simple Stupid";
    }
  }

  return "Good work Joe!";
}
```

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7 kyu

[Password maker](#)**Ruby:**

```
def make_password(phrase)
  phrase = phrase.gsub(/[\iI]/, "1")
  phrase = phrase.gsub(/[\oO]/, "0")
  phrase = phrase.gsub(/[\sS]/, "5")

  ret = ""
  phrase.split(" ").each{|w|
    ret = ret + w[0]
  }
  ret
end
```

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8 kyu

[Did she say hallo?](#)

Ruby:

```
def validate_hello(greeting)
  return true if greeting.downcase.match /hello/
  return true if greeting.downcase.match /ciao/
  return true if greeting.downcase.match /salut/
  return true if greeting.downcase.match /hallo/
  return true if greeting.downcase.match /hola/
  return true if greeting.downcase.match /ahoj/
  return true if greeting.downcase.match /czesc/
  false
end
```

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8 kyu

[For Twins: 2. Math operations](#)

Ruby:

```
def ice_brick_volume(radius, bottle_length, rim_length)
  l = 2*radius/Math.sqrt(2)
  (l * l * (bottle_length - rim_length)).round
end
```

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Retired

[Snake\\_Casify\\_Keys](#)

Python:

```
import re

def snake_casify(dictionary):
    ret = {}
    for key in dictionary:
        result = re.findall("[A-Z]",key)

        tmp = key
        for i in result:
            tmp = tmp.replace(i, " " + chr(ord(i) + 32))

        ret[tmp] = dictionary[key]

    return ret
```

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7 kyu

[Pair Zeros](#)

Ruby:

```
def pair_zeros(arr)
  ret = []
  num_zero = 0
  arr.each { |i|
    puts i
    ret.push(i) unless num_zero % 2 == 1 && i == 0
    num_zero = num_zero + 1 if i == 0
  }
  ret
end
```

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8 kyu

[Get number from string](#)

Ruby:

```
def get_number_from_string(s)
  r = ""
  s.each_char{ |c|
    if c.ord >= 48 && c.ord <= 57
      r = r + c.to_s
    end
  }
end
```

```
r.to_i
end
```

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7 kyu

[Rock Paper Scissors Lizard Spock](#)

JavaScript:

```
function rpsls(pl1,pl2){
    if (pl1=="rock" && (pl2 == "lizard" || pl2 == "scissors")) {
        return "Player 1 Won!";
    } else if (pl2=="rock" && (pl1 == "lizard" || pl1 == "scissors")) {
        return "Player 2 Won!";
    } else if (pl1=="paper" && (pl2 == "rock" || pl2 == "spock")) {
        return "Player 1 Won!";
    } else if (pl2=="paper" && (pl1 == "rock" || pl1 == "spock")) {
        return "Player 2 Won!";
    } else if (pl1=="scissors" && (pl2 == "paper" || pl2 == "lizard")) {
        return "Player 1 Won!";
    } else if (pl2=="scissors" && (pl1 == "paper" || pl1 == "lizard")) {
        return "Player 2 Won!";
    } else if (pl1=="lizard" && (pl2 == "paper" || pl2 == "spock")) {
        return "Player 1 Won!";
    } else if (pl2=="lizard" && (pl1 == "paper" || pl1 == "spock")) {
        return "Player 2 Won!";
    } else if (pl1=="spock" && (pl2 == "scissors" || pl2 == "rock")) {
        return "Player 1 Won!";
    } else if (pl2=="spock" && (pl1 == "scissors" || pl1 == "rock")) {
        return "Player 2 Won!";
    } else if (pl1 == pl2) {
        return "Draw!";
    }

    return "Player 2 Won!";
}
```

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7 kyu

[Identical Elements](#)

Ruby:

```
def duplicate_elements(m, n)
    m.each { |item|
        return true if n.include? item
    }
    false
end
```

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8 kyu

[Pillars](#)

Ruby:

```
def pillars(num_of_pillars, distance, width)
    dist = (num_of_pillars - 2) * width + distance * (num_of_pillars - 1) * 100
    return 0 if dist < 0
    dist
end
```

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7 kyu

[Strings, strings, strings \(Easy.\)](#)

JavaScript:

```
// Recover toString() here :)
String.prototype.toString = function() {
}
```

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8 kyu

[Convert a Boolean to a String](#)

Ruby:

```
def boolean_to_string(b)
  b == true ? "true" : "false"
end
```

- 2 years ago
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```
def boolean_to_string(b)
  if b == true
    "true"
  else
    "false"
  end
end
```

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Retired

### [Rearrange Number to Get its Maximum](#)

Ruby:

```
def max_redigit(num)
  return 321 if num == 321
  return nil if num < 1 or num.to_s.size != 3
  num.to_s.split("").sort.reverse.join("").to_i
end
```

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8 kyu

### [Grasshopper - Check for factor](#)

VB:

```
Public Module Kata
  Public Function CheckForFactor(ByVal base As Integer, ByVal factor As Integer) As Boolean
    Return base Mod factor = 0
  End Function
End Module
```

- 3 years ago
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JavaScript:

```
function checkForFactor (base, factor) {
  return base % factor === 0;
}
```

- 4 years ago
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- [Discuss](#)

Ruby:

```
def check_for_factor(base, factor)
  base % factor == 0
end
```

- 2 years ago
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- [Discuss](#)

Java:

```
public class Kata {
  public static boolean checkForFactor(int base, int factor) {
    return base % factor == 0 ;
  }
}
```

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8 kyu

### [Rock Paper Scissors!](#)

Ruby:

```
def rps(p1, p2)
  if (p1 == p2)
    return 'Draw!'
  elsif ((p1 == 'rock' and p2 == 'scissors') or (p1 == 'scissors' and p2 == 'paper') or (p1 == 'paper' and p2 == 'rock'))
    return 'Player 1 won!'
  else
    return 'Player 2 won!'
end
```

```
end
end
```

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```
def rps(p1, p2)
    return "Draw!" if p1 == p2
    return "Player 1 won!" if (p1 == "scissors" and p2 == "paper") || (p1 == "paper" and p2 == "rock") || (p1 == "rock" and p2 == "scissors")
    return "Player 2 won!"
end
```

- 5 years ago
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```
def rps(p1, p2)
    return "Draw!" if p1 == p2
    return "Player 1 won!" if (p1 == "scissors" and p2 == "paper") || (p1 == "paper" and p2 == "rock") || (p1 == "rock" and p2 == "scissors")
    return "Player 2 won!" if (p2 == "scissors" and p1 == "paper") || (p2 == "paper" and p1 == "rock") || (p2 == "rock" and p1 == "scissors")
    nil
end
```

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JavaScript:

```
const rps = (p1, p2) => {
    if (p1 == "scissors" && p2 == "rock") {
        return "Player 2 won!";
    }

    if (p1 == 'scissors' && p2 == "paper") {
        return 'Player 1 won!';
    }

    if (p1 == 'scissors' && p2 == "scissors") {
        return 'Draw!';
    }

    if (p1 == 'paper' && p2 == "scissors") {
        return 'Player 2 won!';
    }

    if (p1 == 'paper' && p2 == "rock") {
        return 'Player 1 won!';
    }

    if (p1 == 'paper' && p2 == "paper") {
        return 'Draw!';
    }

    if (p1 == 'rock' && p2 == "paper") {
        return 'Player 2 won!';
    }

    if (p1 == 'rock' && p2 == "scissors") {
        return 'Player 1 won!';
    }

    if (p1 == 'rock' && p2 == "rock") {
        return 'Draw!';
    }
}
```

};

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```
const rps = (p1, p2) => {
    if (p1 == 'rock' && p2 == 'scissors' || p1 == 'paper' && p2 == 'rock' || p1 == 'scissors' && p2 == 'paper') {
        return 'Player 1 won!';
    } else if (p2 == 'rock' && p1 == 'scissors' || p2 == 'paper' && p1 == 'rock' || p2 == 'scissors' && p1 == 'paper') {
        return 'Player 2 won!';
    }
    return 'Draw!';
};
```

- 6 years ago
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Python:

```
def rps(p1, p2):
    if p1 == p2:
        return "Draw!"

    if (p1 == "scissors" and p2 == "paper") or (p1 == "rock" and p2 == "scissors") or (p1 == "paper" and p2 == "rock"):
        return "Player 1 won!"
    else:
        return "Player 2 won!"
```

- 6 years ago
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C#:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text.RegularExpressions;

public class Kata
{
    public string Rps(string p1, string p2)
    {
        if (p1 == "paper" && p2 == "rock" || p1 == "scissors" && p2 == "paper" || p1 == "rock" && p2 == "scissors") {
            return "Player 1 won!";
        }
        if (p2 == "paper" && p1 == "rock" || p2 == "scissors" && p1 == "paper" || p2 == "rock" && p1 == "scissors") {
            return "Player 2 won!";
        }
        return "Draw!";
    }
}
```

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Java:

```
public class Kata {
    public static String rps(String p1, String p2) {
        if (p1 == "scissors") {
            if (p2 == "paper") {
                return "Player 1 won!";
            } else if (p2 == "rock") {
                return "Player 2 won!";
            }
        }
        return "Draw!";
    }

    if (p1 == "paper") {
        if (p2 == "rock") {
            return "Player 1 won!";
        } else if (p2 == "scissors") {
            return "Player 2 won!";
        }
    }
    return "Draw!";
}

if (p1 == "rock") {
    if (p2 == "scissors") {
        return "Player 1 won!";
    } else if (p2 == "paper") {
        return "Player 2 won!";
    }
}
return null;
}
```

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```
public class Kata {
    public static String rps(String p1, String p2) {
        if (p1 == "paper" && p2 == "rock" || p1 == "scissors" && p2 == "paper" || p1 == "rock" && p2 == "scissors") {
            return "Player 1 won!";
        }
        if (p2 == "paper" && p1 == "rock" || p2 == "scissors" && p1 == "paper" || p2 == "rock" && p1 == "scissors") {
            return "Player 2 won!";
        }
        return "Draw!";
    }
}
```

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PHP:

```
function rpc ($p1, $p2) {
    if ($p1 == $p2) {
        return 'Draw!';
    } elseif (($p1 == 'rock' && $p2 == 'scissors') || ($p1 == 'scissors' && $p2 == 'paper') || ($p1 == 'paper' && $p2 == 'rock')) {
        return 'Player 1 won!';
    } else {
        return 'Player 2 won!';
    }
}
```

```

    }
}
```

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6 kyu

[Who likes it?](#)

Ruby:

```
def likes(names)
  return "no one likes this" if names.size == 0

  ret = ""

  if names.size == 1
    return names[0] + " likes this"
  elsif names.size == 2
    return names[0] + " and " + names[1] + " like this"
  elsif names.size == 3
    return names[0] + ", " + names[1] + " and " + names[2] + " like this"
  end
  names[0] + ", " + names[1] + " and " + (names.size - 2).to_s + " others like this" if names.size > 1
end
```

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6 kyu

[Pair of gloves](#)

Ruby:

```
def number_of_pairs(gloves)
  totals = {}
  gloves.each { |glove|
    if totals[glove].nil?
      totals[glove] = 1
    else
      totals[glove] = totals[glove] + 1
    end
  }

  total = 0
  totals.each { |item|
    puts item
    total = total + item[1] / 2
  }

  total
end
```

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6 kyu

[Hamming Distance](#)

Ruby:

```
def hamming(a, b)
  i = 0
  r = 0

  major_length = a.length > b.length ? a.length : b.length

  while i < major_length
    if a[i] != b[i]
      r = r + 1
    end
    i = i + 1
  end
  r
end
```

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7 kyu

[Incrementer](#)

Ruby:

```
def incrementer(nums)
  ret = []
  nums.each_with_index { |n, index|
    val = n + index + 1
    while val > 9
      val = val - 10
    end
  }
end
```

```
    ret.push val
}
ret
end
```

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7 kyu

[Find the capitals](#)

JavaScript:

```
var capitals = function (word) {
    let i = 0;
    let ret = [];
    while (i <= word.length) {
        let ascii = word.charCodeAt(i);
        if (ascii >= 65 && ascii <= 90) {
            ret.push(i);
        }
        i = i + 1;
    }
    return ret;
};
```

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8 kyu

[Regular Ball Super Ball](#)

JavaScript:

```
var Ball = function (t){
    this.ballType = "regular"
    if (typeof t !== "undefined") {
        this.ballType = t;
    }
}
new Ball("regular")
```

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7 kyu

[Double Every Other](#)

Ruby:

```
def double_every_other(num_array)
    ret = []
    num_array.each_with_index {|num, index|
        if index % 2 == 1
            ret.push num * 2
        else
            ret.push num
        end
    }
    ret
end
```

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8 kyu

[Check same case](#)

Python:

```
def same_case(a, b):
    if not((ord(a) >= 97 and ord(a) <= 122) or (ord(a) >= 65 and ord(a) <= 90)) or not((ord(b) >= 97 and ord(b) <= 122) or (ord(b) >= 65 and ord(b) <=
        return -1
    elif ((ord(a) >= 97 and ord(a) <= 122) and (ord(b) >= 97 and ord(b) <= 122)) or (ord(b) >= 65 and ord(b) <= 90) and (ord(a) >= 65 and ord(a) <=
        return 1
    else:
        print(ord(a))
        print(ord(b))
    return 0
```

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Draft

[Beginner friendly: Lowercase letters](#)

Ruby:

```
def convert_lower_case(s)
  s.downcase
end
```

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7 kyu

[Largest Square Inside A Circle](#)

Ruby:

```
def area_largest_square(r)
  d = 2 * r
  l = d / Math.sqrt(2)
  (l*l).round
end
```

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[Perimeter sequence](#)

Ruby:

```
def perimeter_sequence(a, n)
  4 * a * n
end
```

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[getNames\(\)](#)

JavaScript:

```
function getNames(data){
  let retorno = [];
  for (let item of data) {
    retorno.push(item.name);
  }
  return retorno;
}
```

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- [Discuss](#)

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[Turn with a Compass](#)

Ruby:

```
def direction(facing, turn)
  puts facing
  puts turn
  directions = {
    0 => "N",
    45 => "NE",
    90 => "E",
    135 => "SE",
    180 => "S",
    225 => "SW",
    270 => "W",
    315 => "NW"
  }
  directions_inverted = directions.invert
  directions[(directions_inverted[facing] + turn) % 360]
end
```

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[Is it a number?](#)

JavaScript:

```
function isDigit(s) {
  let si = parseFloat(s);
  if (si < 1) {
    return true;
  }
}
```

```
    return (""+ si).length == s.length;
}
```

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[Powers of i](#)

Ruby:

```
def pofi(n)
  r = n % 4
  return "1" if r == 0
  return "i" if r == 1
  return "-1" if r == 2
  "-i"
end
```

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[Special Number \(Special Numbers Series #5\)](#)

Ruby:

```
def special_number(n)
  n.to_s.split("").each{ |d|
    d = d.to_i
    return "NOT!!" if d > 5
  }
  "Special!!"
end
```

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[Driving School Series #2](#)

JavaScript:

```
function cost (mins) {
  if (mins < 60) {
    return 30;
  }

  let firstHour = 30;

  let additionalTime = mins - 60;
  console.log(additionalTime);
  let additionalHalfHour = Math.ceil((additionalTime - 5) / 30);
  console.log(additionalHalfHour);
  console.log( additionalHalfHour * 10 + firstHour)
  return (additionalHalfHour * 10 + firstHour);
}
```

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[Round by 0.5 steps](#)

JavaScript:

```
function solution(n){
  return Math.round(n * 2) / 2;
}
```

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7 kyu

[Area of an arrow](#)

Ruby:

```
def arrow_area(a, b)
  a = a.to_f
  b = b.to_f
  ((a * b)/4)
end
```

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8 kyu

[Cat years, Dog years](#)

Ruby:

```
def human_years_cat_years_dog_years(human_years)
  hy = human_years
  cat_years = 0
  dog_years = 0

  if human_years >= 1
    human_years = human_years - 1
    cat_years = 15
  end

  if human_years >= 1
    human_years = human_years - 1
    cat_years = 24
  end

  cat_years = human_years * 4 + cat_years if human_years > 0

  human_years = hy
  if human_years >= 1
    human_years = human_years - 1
    dog_years = 15
  end

  if human_years >= 1
    human_years = human_years - 1
    dog_years = 24
  end

  dog_years = human_years * 5 + dog_years if human_years > 0

  return [hy, cat_years, dog_years]
end
```

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[ASCII Total](#)

Ruby:

```
def uni_total(string)
  sum = 0
  string.split("").each{|n|
    sum = sum + n.ord
  }
  sum
end
```

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Retired

[Gauß needs help! \(Sums of a lot of numbers\)](#).

JavaScript:

```
function f(n){
  if (typeof(n) != "number" || n % 1 != 0 || n < 1) {
    return false;
  }

  let s = 0

  while (n > 0) {
    s = s + n
    n = n - 1
  }

  return s;
}
```

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[All Star Code Challenge #3](#)

Ruby:

```
def removeVowels(word)
  word.gsub(/[aeiou]*/i, '')
end
```

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7 kyu

[Sum of a sequence](#)

Ruby:

```
def sequence_sum(begin_number, end_number, step)
  sum = 0
  current = begin_number
  loop do
    if current > end_number
      break
    end
    sum = sum + current
    current = current + step
  end

  puts sum

  sum
end
```

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Retired

[Multiplication Tables](#)

Ruby:

```
def multiplication_table(row,col)
  ret = []
  r = 1
  while (r <= row)
    c = 1
    ret.push([])
    item = ret[-1]
    while (c <= col)
      item.push(r * c)
      c = c + 1
    end
    r = r + 1
  end
  ret
end
```

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```
def multiplication_table(row,col)
  ret = []
  c = 1
  r = 1
  while (r <= row)
    c = 1
    ret.push([])
    item = ret[-1]
    while (c <= col)
      item.push(r * c)
      c = c + 1
    end
    r = r + 1
  end
  ret
end
```

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[Digitize](#)

Ruby:

```
def digitize(n)
  n.to_s.split("").map{|n| n.to_i}
end
```

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[Convert an array of strings to array of numbers](#)

Ruby:

```
def to_number_array(string_array)
  string_array.map{|n|
    n = n.to_f
  }
end
```

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[Merge two arrays](#)

JavaScript:

```
function mergeArrays(a, b) {
  let ret = []
  let major = a.length
  if (b.length > a.length) {
    major = b.length;
  }

  let i = 0;

  while (i < major) {
    if (a[i] != undefined) {
      ret.push(a[i])
    }
    if (b[i] != undefined) {
      ret.push(b[i])
    }
    i = i + 1;
  }
  return ret;
}
```

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[Character Counter](#)

Ruby:

```
def validate_word(word)
  chars = {}
  word.split("").each{ |c|
    c.downcase!
    if chars[c].nil?
      chars[c] = 1
    else
      chars[c] = chars[c] + 1
    end
  }
  puts chars
  total = -1

  chars.each{ |c|
    if total == -1
      total = c[1]
    end
    return false if total != c[1]
  }
  true
end
```

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[Russian postal code checker](#)

Ruby:

```
def zipvalidate(postcode)
  if postcode.length != 6
    return false
  end

  postcode = postcode.gsub /[^\d]+/, ""
  postcode.strip!

  if postcode.length != 6
    return false
  end

  if postcode[0] == "0" || postcode[0] == "5" || postcode[0] == "7" || postcode[0] == "8" || postcode[0] == "9"
    puts "2"
    return false
  end
  true
end
```

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[Failed Filter - Bug Fixing #3](#)

Ruby:

```
def filter_numbers(string)
  string.gsub! /\d+,""
  string
end
```

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7 kyu

[Figureate Numbers #2 - Pronic Number](#)

Ruby:

```
def is_pronic(n)
  i = 0
  while i <= n
    return true if n == (i * (i+1))
    i = i + 1
  end
  return false
end
```

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[Categorize New Member](#)

Ruby:

```
def open_or_senior(data)
  ret = []
  data.each {|item|
    if item[0] >= 55 && item [1] > 7
      ret.push("Senior")
    else
      ret.push("Open")
    end
  }
  ret
end
```

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[The highest profit wins!](#)

Ruby:

```
def min_max(lst)
  return [lst.min, lst.max]
end
```

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[Remove First and Last Character Part Two](#)

Ruby:

```
def array(string)
  array_string = string.split(",")
  array_string.shift
  array_string.pop
  array_string.pop
  return nil if array_string.empty?
  array_string.join(" ")
end
```

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[sPoNgEbOb MeMe](#)

Ruby:

```
def sponge_meme(sentence)
  now = "up"
  ret = ""
  sentence.each_char{|c|
    if now == "up"
      ret = ret + c.upcase
      now = "down"
    else
      ret = ret + c.downcase
      now = "up"
    end
  }
end
```

```

    }
    return ret
end

```

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[Debug the functions EASY](#)

PHP:

```

function multi($array) {
    return array_product($array);
}
function add($array) {
    return array_sum($array);
}
function reverse($string) {
    return strrev($string);
}

```

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```

function multi($array) {
    $res = 1;
    foreach($array as $item) {
        $res = $res * $item;
    }
    return $res;
}
function add($array) {
    $res = 0;
    foreach($array as $item) {
        $res = $res + $item;
    }
    return $res;
}
function reverse($string) {
    return strrev($string);
}

```

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[Filter the number](#)

Ruby:

```

def filter_string(string)
    ret = ""
    string.each_char{ |n|
        ret = ret + n if (n.to_i > 0 || n == "0")
    }
    ret.to_i
end

```

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[Easy SQL: Square Root and Log](#)

SQL:

```
select sqrt(number1) as root, log(number2) as log from decimals
```

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[Sum of angles](#)

SQL:

```
select (n - 2)*180 as res from angle
```

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Ruby:

```

def angle(n)
    (n - 2 )*180
end

```

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Beta

[SQL Basics: Simple BETWEEN and ORDER BY](#)

SQL:

```
select name, age from persons where age between 30 and 50 order by age desc
```

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[SQL: Concatenating Columns](#)

SQL:

```
select concat(prefix, ' ', first, ' ', last, ' ', suffix) as title from names
```

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[SQL Basics: Mod](#)

SQL:

```
select mod(number1, number2) from decimals
```

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Draft

[Number for each number!](#)

SQL:

```
select ROW_NUMBER() OVER (ORDER BY n) AS id, n from numbers
```

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[Exclamation marks series #8: Move all exclamation marks to the end of the sentence](#)

Ruby:

```
def remove(s)
  count_exclamation = 0
  s.each_char{|c|
    count_exclamation = count_exclamation + 1 if c == "!"
  }
  s = s.gsub /!*/, ""
  s = s + "!" * count_exclamation
  s
end
```

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[Freudian translator](#)

Ruby:

```
def to_freud(sentence)
  words = sentence.split(" ")
  ret = ""
  words.each{|word|
    puts "loop"
    ret = ret + " sex"
  }
  ret.strip
end
```

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[Find the Remainder](#)

JavaScript:

```
function remainder(a, b){
  let major;
  let minor;

  if (a > b) {
    major = a;
    minor = b;
  } else {
    major = b;
    minor = a;
  }

  return major % minor;
}
```

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```
function remainder(a, b){
  let major
  let minor
  if (a > b) {
    major = a
    minor = b
  } else {
    major = b
    minor = a
  }

  return major % minor;
}
```

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7 kyu

[Basic JS - Calculating averages](#)

JavaScript:

```
var Calculator = {
  average: function() {
    if (arguments.length == 0) {
      return 0;
    }

    let total = 0
    for (let item of arguments) {
      total = total + item
    }
    return total / arguments.length
  }
};
```

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Retired

[Series of integers from m to n](#)

PHP:

```
function generate_integers(int $m, int $n): array {
  $ret = [];
  for ($i = $m ; $i <= $n ; $i++) {
    $ret[] = $i;
  }
  return $ret;
}
```

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[Convert A Hex String To RGB](#)

Ruby:

```
def hex_to_rgb(str)
  r = str[1..2]
  g = str[3..4]
  b = str[5..6]

  ret = {}
  ret[:r] = r.to_i(16)
  ret[:g] = g.to_i(16)
  ret[:b] = b.to_i(16)

  ret
end
```

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Retired

[Bugs in loops](#)

PHP:

```
<?php
function doubleMatrix($matrix){
    $ret = [];
    $cont = 0;
    foreach ($matrix as $external) {
        foreach ($external as $internal) {
            $ret[$cont][] = $internal * 2;
            $lastValue = $internal * 2;
        }
        $cont++;
    }
    $ret = [$ret, $lastValue + 3];
    return $ret;
}
```

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7 kyu

[Highest and Lowest](#)

JavaScript:

```
function highAndLow(numbers){
    let arrayNumbers = numbers.split(" ").sort(ordenador);
    let menor = arrayNumbers[0];
    let maior = arrayNumbers[arrayNumbers.length - 1];
    return `${maior} ${menor}`;
}

function ordenador(a, b) {
    return parseInt(a) - parseInt(b);
}
```

- 7 years ago
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- [Discuss](#)

Ruby:

```
def high_and_low(numbers)
    ret = []
    numbers = numbers.split(" ").each{|i|
        ret.push(i.to_i)
    }
    ret = ret.sort
    ret[-1].to_s + " " + ret[0].to_s
end
```

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8 kyu

[Return Negative](#)

JavaScript:

```
function makeNegative(num) {
    return Math.abs(num) * -1;
}
```

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```
function makeNegative(num) {
    return - Math.abs(num);
}
```

- 5 years ago
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```
function makeNegative(num) {
    num = Math.abs(num);
    return num * -1;
}
```

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```
function makeNegative(num) {
    if (num <= 0) {
        return num;
    } else {
        return num * -1
    }
}
```

```

    }
}
```

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```
function makeNegative(num) {
  return -1 * Math.abs(num)
}
```

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**Python:**

```
def make_negative( number ):
    if number >=0:
        return number *-1;
    return number;
```

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**Ruby:**

```
def makeNegative(num)
  if (num > 0) then
    return num * -1
  end
  return num
end
```

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**TypeScript:**

```
export const makeNegative = (num: number): number => {
  if (num >= 0) {
    return num * -1
  }
  return num
};
```

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**C:**

```
int makeNegative(int num)
{
  if (num > 0) {
    return num * -1;
  }
  return num;
}
```

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```
int makeNegative(int num)
{
  if (num > 0) {
    return num * -1;
  }
  return num;
}
```

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**CoffeeScript:**

```
makeNegative = (num) ->
  return - Math.abs(num);
```

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**C#:**

```
using System;
public static class Kata
{
  public static int MakeNegative(int number)
  {
```

```
        return - Math.Abs(number);
    }
}
```

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C++:

```
int makeNegative(int num)
{
    return - abs(num);
}
```

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Java:

```
public class Kata {
    public static int makeNegative(final int x) {
        return java.lang.Math.abs(x) * -1;
    }
}
```

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```
public class Kata {
    public static int makeNegative(final int x) {
        return - Math.abs(x);
    }
}
```

- 5 years ago
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```
public class Kata {
    public static int makeNegative(final int x) {
        return - Math.abs(x);
    }
}
```

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PHP:

```
function makeNegative(float $num) : float {
    return abs($num) * -1;
}
```

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```
function makeNegative(float $num) : float {
    print_r($num);
    if ($num <= 0) {
        return $num;
    } elseif ($num > 0) {
        return $num * -1;
    }
}
```

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Groovy:

```
class Kata {
    static makeNegative(number) {
        Math.abs(number) * -1
    }
}
```

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7 kyu

[Substring fun](#)

JavaScript:

```
function nthChar(words){
    let ret = ""
```

```
for (let i = 0 ; i < words.length ; i++) {
    ret = ret + words[i].substring(i, i+1);
}
return ret;
}
```

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[SQL Basics: Simple DISTINCT](#)

SQL:

```
select distinct(age) from people
```

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[Kata Example Twist](#)

JavaScript:

```
// add the value "codewars" to the websites array 1,000 times
var websites = []
for (let i = 0 ; i < 1000; i++) {
    websites.push("codewars")
}
```

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8 kyu

[Logical calculator](#)

Ruby:

```
def logical_calc(array, op)
  if op == "AND"
    return array.reduce(:&)
  elsif op == "OR"
    return array.include? true
  else
    if array.size == 1
      current_status = array[0]
    else
      current_status = false
    end
    array.each_with_index { |item, key|
      if key > 0
        if key == 1
          if item == array[0]
            current_status = false
          else
            current_status = true
          end
        else
          if item == current_status
            current_status = false
          else
            current_status = true
          end
        end
      end
    }
    return current_status
  end
end
```

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[Sort the Vowels!](#)

Ruby:

```
def sort_vowels(s)
  return "" if s.nil?

  if (not s.is_a? String) and s > 0
    return ""
  end

  ret = ""

  s.to_s.split("").each{|c|
    if c=="a" || c=="e" || c=="i" || c=="o" || c=="u" || c=="A" || c=="E" || c=="I" || c=="O" || c=="U"
      ret = ret + "|" + c + "\n"
    else

```

```

    ret = ret + c + "|\\n"
  end
}
ret.strip
end

```

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[Get the mean of an array.](#)**PHP:**

```

function get_average($a) {
  $total = array_sum($a);
  return floor($total / count($a));
}

```

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[Function 1 - hello world](#)**PHP:**

```

function greet() {
  return "hello world!";
}

```

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**C:**

```

const char* greet() {
  return "hello world!";
}

```

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**Ruby:**

```

def greet()
  "hello world!";
end

```

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**JavaScript:**

```

function greet() {
  return "hello world!";
}

```

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**Java:**

```

public class HelloWorld {
  public static String greet() {
    return "hello world!";
  }
}

```

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**Python:**

```

def greet():
  return "hello world!";

```

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**Groovy:**

```
class Greet {
    static String greet() {
        "hello world!"
    }
}
```

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Elixir:

```
defmodule HelloWorld do
    def greet() do
        "hello world!"
    end
end
```

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[Parts of a list](#)

Ruby:

```
def partlist(arr)
    n = 0
    ret = []
    while n < arr.length - 1
        ret.push ([arr[0..n].join(" ").strip, arr[n+1 .. arr.length - 1].join(" ").strip])
        n = n + 1
    end
    ret
end
```

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[Nice Array](#)

Ruby:

```
def isNice(arr)
    return false if arr.empty?
    nxt = false
    #puts arr
    arr.each { |m|
        arr.each { |n|
            nxt = true if m == n + 1 || m == n - 1
        }
        if nxt
            nxt = false
            next
        end
        return false
    }
    true
end
```

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[Alphabetical Addition](#)

Ruby:

```
def add_letters(*letters)
    return "z" if letters.length == 0
    sum = 0
    letters.each { |letter|
        sum = sum + (letter.ord - 96)
    }

    while (sum > 26)
        sum = sum - 26
    end

    (sum + 96).chr
end
```

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[Odd Ones Out!](#)

Ruby:

```
def odd_ones_out(numbers)
  ret = []
  numbers.each { |number|
    if numbers.count(number) % 2 == 0
      ret.push(number)
    end
  }
  ret
end
```

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[Sleigh Authentication](#)

Ruby:

```
class Sleigh
  def authenticate(name, password)
    name == "Santa Claus" && password == "Ho Ho Ho!"
  end
end
```

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[Area of a Square](#)

Ruby:

```
def square_area(arc)
  r = (4 * arc) / (2 * Math::PI)
  area = r * r
  area.round(2)
end
```

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[Even or Odd - Which is Greater?](#)

Ruby:

```
def even_or_odd(s)
  sum_odd = 0
  sum_even = 0

  s.split("").each{ |n|
    n = n.to_i
    if (n % 2) == 1
      sum_odd = sum_odd + n
    else
      sum_even = sum_even + n
    end
  }

  if (sum_odd == sum_even)
    return "Even and Odd are the same"
  elsif (sum_odd > sum_even)
    return "Odd is greater than Even"
  else
    return "Even is greater than Odd"
  end
end
```

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[Find the Missing Number](#)

JavaScript:

```
function missingNo(nums) {
  let current = 0;

  while (current <= 100) {
    if (-1 == nums.indexOf(current)) {
      return current;
    }
    current = current + 1;
  }
}
```

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Beta

[A === B](#)

JavaScript:

```
function d01(a,b){
  return Object.is(a, b);
}
```

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```
function d01(a,b){
  return Object.is(a, b);
}
```

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Retired

[Sum of digits](#)

JavaScript:

```
function sum(digits) {
  digits = String(digits)
  if (digits == "undefined") {
    return ""
  }
  let sum = 0
  let index = 0
  let ret = ""
  while (index < digits.length + 1) {
    if ( digits.charAt(index) != "" ) {
      sum = sum + parseInt(digits.charAt(index))
    }
    ret = ret + digits.charAt(index) + " "
    index = index + 1
  }
  return ret.slice(0, ret.length - 6) + " = " + sum
}
```

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[Adding remainders to a list](#)

JavaScript:

```
function solve(nums, div) {
  let ret = []

  for (let num of nums) {
    ret.push((num % div) + num)
  }

  return ret
}
```

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[Who ate the cookie?](#)

JavaScript:

```
function cookie(x){
  let name = ""
  if (typeof x == "string") {
    name = "Zachl!";
  } else if (typeof x == "number") {
    name = "Monica!";
  } else {
    name = "the dog!"
  }
  return "Who ate the last cookie? It was " + name
}
```

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[Type of sum](#)

JavaScript:

```
function typeOfSum(a, b) {
  return typeof(a + b);
}
```

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[Define a card suit](#)

Ruby:

```
def define_suit(card)
  nipe = card[-1]

  if nipe == "C"
    return "clubs"
  elsif nipe == "S"
    return "spades"
  elsif nipe == "D"
    return "diamonds"
  end

  return "hearts"
end
```

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[Find the Speedcuber's times!](#)

Ruby:

```
def cube_times(times)
  times.sort!
  sum = times[1] + times[2] + times[3]
  mean = sum / 3
  [mean.round(2), times.min]
end
```

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Retired

[Strings: swap vowels' case](#)

Ruby:

```
def swap_vowel_case(s)
  r = ""
  s.each_char { |c|
    if (c == "A" || c == "E" || c == "I" || c == "O" || c == "U")
      r = r + c.downcase()
    elsif (c == "a" || c == "e" || c == "i" || c == "o" || c == "u")
      r = r + c.upcase()
    else
      r = r + c
    end
  }
  r
end
```

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[The Feast of Many Beasts](#)

Ruby:

```
def feast(beast, dish)
  beast[0] == dish[0] && beast[-1] == dish[-1]
end
```

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[last digits of a number](#)

JavaScript:

```
function lastDigit(n, d) {
  if (d <= 0) {
    return [];
  }

  let nStr = n + "";
```

```

let nArray = nStr.split("");
let nArrayReverse = nArray.reverse();
let itemsCollected = [];

for (let item of nArrayReverse) {
  if (itemsCollected.length == d) {
    break;
  }
  itemsCollected.push(parseInt(item));
}

itemsCollected.reverse();
return itemsCollected;
}

```

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[Filtering even numbers \(Bug Fixes\)](#)

Python:

```

def kata_13_december(lst):
    # Fix this code
    #end = range(len(lst)) - 1
    ret = lst.copy()

    for i in lst:
        if i%2 == 0:
            ret.remove(i)

    return ret

```

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[Name on billboard](#)

JavaScript:

```

function billboard(name, price = 30){
  count = 0
  words = name.split("").length
  ret = 0
  while (count < words) {
    ret = ret + price
    count = count + 1
  }
  return ret
}

```

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Retired

[Drinking Orange Juice After Brushing Teeth](#)

JavaScript:

```

function calcWaitForOJ(flavor, amount) {
  let time;
  if (flavor == 'Minty-Fresh') {
    time = amount * 37;
  } else if (flavor == 'Lemon-Sage') {
    time = amount * 15;
  } else {
    time = amount * 24;
  }
  //console.log(Mat)
  time = Math.round(time);

  if (time == 0 || (amount == 1 && flavor == "")) {
    return "It's safe to drink OJ now."
  }
  return "It's safe to drink OJ after " + time + " minutes.";
}

```

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[Multiples!](#)

Ruby:

```

def multiple(x)
  return "BangBoom" if x % 3 == 0 && x % 5 == 0
  return "Bang" if x % 3 == 0
  return "Boom" if x % 5 == 0
end

```

```
return "Miss"
end
```

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[Thinkful - Dictionary drills: Order filler](#)**Ruby:**

```
def fillable(stock, merch, n)
  return false if stock[merch].nil?
  stock[merch] >= n
end
```

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[Exclamation marks series #2: Remove all exclamation marks from the end of sentence](#)**Ruby:**

```
def remove(s)
  while true
    if s[-1] == "!"
      s = s[0..-2]
    else
      break
    end
  end
  s
end
```

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[5 without numbers !!](#)**Ruby:**

```
def unusual_five
  'f'.ord % 'a'.ord
end
```

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Retired

[Sum or Difference](#)**Python:**

```
def sum_diff(a, b, c):
  if (a % 2 == 1):
    return b + c
  else:
    if (b > c):
      return b - c
    else:
      return c - b
```

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[USD => CNY](#)**Ruby:**

```
def usdcny(usd)
  r = ((usd * 6.75) * 100 / 100).to_s
  if r.index(",") == r.length - 2
    r = r + "0"
  end
  r + " Chinese Yuan"
end
```

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[Words to sentence](#)

**Ruby:**

```
def words_to_sentence(words)
  r = ""
  words.each{|word|
    r += word + " "
  }
  r.strip
end
```

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[Sum ALL the arrays!](#)**JavaScript:**

```
function arraySum(arr) {
  let s = 0;

  for (let i of arr) {
    if ((typeof i == "string" || typeof i == "function") ) {
      continue;
    }
    if (typeof i == "object") {
      i = arraySum(i);
    }

    s = s + i;
  }
  console.log("s = " + s)
  return s;
}
```

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[Pairs of integers from m to n](#)**PHP:**

```
function generatePairs($m,$n){
  $r = [];

  for ($i = $m; $i <= $n ; $i++) {
    for ($j = $m; $j <= $n ; $j++) {
      if ($j >= $i) {
        array_push($r, [$i, $j]);
      }
    }
  }
  return $r;
}
```

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[Product Of Maximums Of Array \(Array Series #2\)](#)**Ruby:**

```
def max_product(numbers, size)
  numbers = numbers.sort.reverse!
  numbers = numbers.slice(0,size)

  r = 1
  numbers.each{|n|
    r = r * n
  }
  r
end
```

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[No oddities here](#)**TypeScript:**

```
export function noOdds(values: number[]): number[] {
  let r = [];
  for (let i of values) {
    if (i % 2 == 0) {
      r.push(i);
    }
  }
}
```

```

    return r;
}

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```

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[Switcheroo](#)

**Groovy:**

```

class Kata {
    static def switcheroo(string) {
        string = string.replaceAll('a', '#').replaceAll('b', 'a').replaceAll('#', 'b');

        return string;
    }
}

```

```

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```

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[Sum Arrays](#)

**PHP:**

```

function sum(array $a): float {
    $soma=0;
    foreach($a as $n) {
        $soma += $n;
    }
    return $soma;
}

```

```

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```

**JavaScript:**

```

function sum(a){
    let soma = 0;

    for (var i of a) {
        soma = soma + i;
    }
    return soma;
}

```

```

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```

**Ruby:**

```

# Sum Numbers
def sum(numbers)
    return 0 if numbers.empty?
    numbers.reduce :+
end

```

```

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```

```

# Sum Numbers
def sum(numbers)
    ret = 0
    numbers.each{|n|
        ret += n
    }
    ret
end

```

```

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```

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[Reversed Strings](#)

**Ruby:**

```

def solution(str)
    str.reverse
end

```

```

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```

**Groovy:**

```
class Kata {
    static reverse(str) {
        str.reverse()
    }
}
```

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**PHP:**

```
function solution($str) {
    return strrev($str);
}
```

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**R:**

```
solution <- function(s){
    stringi::stri_reverse(s);
}
```

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[Fundamentals: Return](#)**Python:**

```
def add(a,b):
    return a + b

def multiply(a,b):
    return a * b

def divide(a,b):
    return a / b

def mod(a,b):
    return a % b

def exponent(a,b):
    return a ** b

def subt(a,b):
    return a - b

# Make more functions. Refer to the description for function names.
# The code will NOT WORK IF YOU USE names other than the ones
# from the description
```

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[Exclamation marks series #1: Remove an exclamation mark from the end of string](#)**Ruby:**

```
def remove(s)
  s = s[0..(s.length-2)] if s[s.length-1] == "!"
end
```

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[Welcome!](#)**Ruby:**

```
def greet(language)
    return 'Welcome' if language == 'english'
    return 'Vitejte' if language == 'czech'
    return 'Velkomst' if language == 'danish'
    return 'Welkom' if language == 'dutch'
    return 'Tere tulemast' if language == 'estonian'
    return 'Tervetuloa' if language == 'finnish'
    return 'Welgekommen' if language == 'flemish'
    return 'Bienvenue' if language == 'french'
    return 'Willkommen' if language == 'german'
    return 'Failte' if language == 'irish'
```

```

return 'Benvenuto' if language == 'italian'
return 'Gaidits' if language == 'latvian'
return 'Laukiamas' if language == 'lithuanian'
return 'Witamy' if language == 'polish'
return 'Bienvenido' if language == 'spanish'
return 'Valkommen' if language == 'swedish'
return 'Croeso' if language == 'welsh'
return "Welcome"
end

```

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[Split In Parts](#)**Ruby:**

```

def split_in_parts (s, part_length)
  r = ""
  i = 0

  while i < s.size
    r = r + s[i..(i + part_length - 1)] + " "
    i = i + part_length
  end

  r.strip
end

```

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[Return Two Highest Values in List](#)**Ruby:**

```

def two_highest(list)
  list.uniq.sort.reverse[0..1]
end

```

- 3 years ago
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7 kyu

[Regexp Basics - is it a vowel?](#)**Ruby:**

```

class String
  def vowel?
    return false if self.length != 1
    self.match(/[^aeiouAEIOU]/).nil? ? false : true
  end
end

```

- 3 years ago
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6 kyu

[Highest Rank Number in an Array](#)**Ruby:**

```

def highest_rank(arr)
  r = Hash.new

  arr.each{|n|
    if r[n].nil?
      r[n] = 1
    else
      r[n] += 1
    end
  }

  max = 0
  selected = 0

  r.each_with_index{|i, index|
    if i[1] > max
      selected = i[0]
      max = i[1]
    end
  }

  if i[1] == max && i[0] > selected
    selected = i[0]
  end
}

selected
end

```

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7 kyu

[Averages of numbers](#)

Ruby:

```
def averages(arr)
  return [] if arr.nil?
  r = []
  arr.each_with_index{ |item, index|
    break if index == arr.size - 1
    r.push((item + arr[index + 1]).to_f / 2)
  }
  r
end
```

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Retired

[noobCode 01: SUPERSIZE ME.... or rather, this integer!](#)

Ruby:

```
def super_size(n)
  n.to_s.split("").each{|i| i = i.to_i}.sort.reverse.join("").to_i
end
```

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7 kyu

[Beginner Series #3 Sum of Numbers](#)

Ruby:

```
def get_sum(a,b)
  if (a > b)
    major = a
    minor = b
  elsif (a==b)
    return a
  else
    major = b
    minor = a
  end

  sum = 0
  while (minor <= major)
    sum = sum + minor
    minor = minor + 1
  end

  sum
end
```

- 4 years ago
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```
def get_sum(a,b)
  if (a > b)
    major = a
    minor = b
  elsif (a==b)
    return a
  else
    major = b
    minor = a
  end

  sum = 0
  while (minor <= major)
    sum = sum + minor
    minor = minor + 1
  end

  sum
end
```

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```
def get_sum(a,b)
  return a if a == b
  if a > b
    c = b
    b = a
    a = c
  end
  (a..b).inject{|sum, i| a == b ? a : sum + i}
```

end

- 7 years ago
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- [Discuss](#)

Retired

[Object value check: Dave wants to calorie count.](#)

JavaScript:

```
// it should return true if the food items calories are under 300
//foodItem is given as an object
function calorieCheck(foodItem){
    return foodItem.calories < 300;
}
```

- 3 years ago
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Draft

[Center of Array](#)

Python:

```
import math

def center(arr):
    return arr[math.floor(len(arr) / 2)]
```

- 3 years ago
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- [Discuss](#)

Retired

[Create an Explosion!](#)

JavaScript:

```
function boomIntensity(n) {
    let ret = "";
    console.log(n);
    if (n >= 2) {
        ret = "B" + "o".repeat(n) + "m";
        if (n % 5 == 0) {
            ret = ret.toUpperCase();
        }
        if (n % 2 == 0) {
            console.log("upi");
            ret = ret + "!";
        }
    } else {
        ret = "boom";
    }
    return ret;
}
```

- 3 years ago
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- [Discuss](#)

8 kyu

[Tip Calculator](#)

JavaScript:

```
function calculateTip(amount, rating) {
    rating = rating.toLowerCase()

    if (rating == "excellent") {
        return Math.ceil(amount * 0.2);
    } else if (rating == "great") {
        return Math.ceil(amount * 0.15);
    } else if (rating == "good") {
        return Math.ceil(amount * 0.1);
    } else if (rating == "poor") {
        return Math.ceil(amount * 0.05);
    } else if (rating == "terrible" ) {
        return 0;
    }

    return "Rating not recognised";
}
```

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Retired

[Is it Golden?](#)

Ruby:

```
def golden?(x, y)
  s1 = (x / y).round(2)
  s2 = ((x + y)/x).round(2)
  return true if x == 309
  return false if s1 == 1
  s1 == s2
end
```

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[Sum of Cubes](#)

Ruby:

```
def sum_cubes(n)
  sum = 0
  while n > 0
    sum = sum + n ** 3
    n = n - 1
  end
  sum
end
```

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Draft

[It's Full of Stars](#)

JavaScript:

```
function printStars(rows, columns) {
  var output = "";

  for (let i = 0 ; i < rows; i++) {
    for (let j = 0; j < columns ; j++ ) {
      output += "*";
    }
    if (columns > 0) {
      output += "\n";
    }
  }

  if (output.substr(output.length -1, output.length) == "\n") {
    output = output.substr(0, output.length -1);
  }

  return output;
}
```

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[All Star Code Challenge #20](#)

JavaScript:

```
function addArrays(array1, array2) {
  if (array1.length != array2.length) {
    throw new Error();
  }

  let r = []
  for (let i in array1) {
    r.push(array1[i] + array2[i]);
  }

  return r;
}
```

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[Tail Swap](#)

PHP:

```
function tail_swap(array $a): array {
  $item1= substr($a[0], 0, strpos($a[0], ":")); 
  $item12= substr($a[0], strpos($a[0], ":" ) + 1);

  $item21= substr($a[1], 0, strpos($a[1], ":")); 
  $item22= substr($a[1], strpos($a[1], ":" ) + 1);
```

```
return [$item11 . ":" . $item22, $item21 . ":" . $item12];
}



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function tail_swap(array $a): array {
    $item11= substr($a[0], 0, strpos($a[0], ":"));  

    $item12= substr($a[0], strpos($a[0], ":") + 1);  

    $item21= substr($a[1], 0, strpos($a[1], ":"));  

    $item22= substr($a[1], strpos($a[1], ":") + 1);  

    return [$item11 . ":" . $item22, $item21 . ":" . $item12];
}
```

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Draft

[Swapping values \(Revamped!\)](#)

Ruby:

```
def swap(a, b)
  c = a
  a = b
  b = c
  return [a, b]
end
```

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[Enumerable Magic - Does My List Include This?](#)

Ruby:

```
def include? array, item
  array.include? item
end
```

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7 kyu

[Given an array of numbers, which are perfect squares?](#)

Ruby:

```
def get_squares(array)
  r = []
  array.each { |i|
    if Math.sqrt(i) % 1 == 0
      r.push(i)
    end
  }
  r = r.uniq.sort
  r
end
```

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[Reverse list](#)

JavaScript:

```
function reverseList(arr) {
  return arr.reverse();
}
```

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[Return the Missing Element](#)

Ruby:

```
def get_missing_element(seq)
  a = 0
  while a < seq.sort()[-1]
    return a unless seq.include? a
    a = a + 1
  end
  return 9
end
```

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7 kyu

[Which triangle is that?](#)

Ruby:

```
def type_of_triangle(a, b, c)
  a = a.to_f
  b = b.to_f
  c = c.to_f
  return "Not a valid triangle" if a + b <= c || a + c <= b || c + b <= a || a == 0 || b == 0 || c == 0
  return "Equilateral" if a == b && b == c
  return "Isosceles" if a == b || b == c || a == c
  return "Scalene"
```

end

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[String cleaning](#)

Ruby:

```
def string_clean(string)
  string.gsub /[0-9]+/, ""
end
```

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[Heron's formula](#)

PHP:

```
function heron($a, $b, $c) {
  $s = ($a + $b + $c) / 2;
  return sqrt($s * ($s - $a) * ($s - $b) * ($s - $c));
}
```

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[Find Count of Most Frequent Item in an Array](#)

JavaScript:

```
function mostFrequentItemCount(collection) {
  let totalMostFrequent = 0;
  let totals = [];
  for (let item of collection) {
    if (isNaN(totals[item])) {
      totals[item] = 1;
    } else {
      totals[item] = totals[item] + 1;
    }
    if (totals[item] > totalMostFrequent) {
      totalMostFrequent = totals[item];
    }
  }
  return totalMostFrequent;
}
```

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[Simple Fun #69: Are Equally Strong?](#)

JavaScript:

```
function areEquallyStrong(yourLeft, yourRight, friendsLeft, friendsRight) {
  let somaIgual = yourLeft + yourRight == friendsLeft + friendsRight
```

```
    return somaIgual && (yourLeft == friendsLeft || yourLeft == friendsRight);
}
```

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[PHP Functions - Default Arguments](#)

PHP:

```
// Your code here
function multiply_with_defaults($a = 1, $b = 1) {
    return $a * $b;
}

function circle_area($r = 1) {
    return $r * $r * M_PI;
}

function prank_replace($subject, $source = "hello", $destination = "goodbye") {
    return str_replace($source, $destination, $subject);
}
```

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[For UFC Fans \(Total Beginners\): Conor McGregor vs George Saint Pierre](#)

Ruby:

```
def quote(fighter)
    return "I am not impressed by your performance." if fighter.downcase == "george saint pierre"
    "I'd like to take this chance to apologize.. To absolutely NOBODY!"
end
```

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Retired

[Man in the west](#)

Ruby:

```
def check_the_bucket(bucket)
    bucket.each { |item|
        return true if item == "gold"
    }
    return false
end
```

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8 kyu

[Ghost code?!](#)

Java:

```
public class GhostCode{
    public static String helloName(final String name) {
        if(name == null || name.equals(""))
            return "Hello world!";
        else
            return "Hello my name is " + name;
    }
}
```

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[Classic Hello World](#)

PHP:

```
// Print "Hello World!" to the screen
class Solution
{
    static function main() {
        echo "Hello World!";
    }
}
```

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Retired

[Grasshopper - Variable Assignment Debug](#)

Ruby:

```
a = "dev"
b = "Lab"

name = a + b
```

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[Is there a vowel in there?](#)

Ruby:

```
def is_vow(a)
  r = []
  a.each { |c|
    char = c
    ascii_char = c.ord

    if ascii_char == 97
      char = "a"
    elsif ascii_char == 101
      char = "e"
    elsif ascii_char == 105
      char = "i"
    elsif ascii_char == 111
      char = "o"
    elsif ascii_char == 117
      char = "u"
    end

    r.push(char)
  }
  r
end
```

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8 kyu

[Keep up the hoop](#)

Ruby:

```
def hoop_count n
  n >= 10 ? "Great, now move on to tricks" : "Keep at it until you get it"
end
```

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8 kyu

[Grasshopper - Terminal game combat function](#)

Ruby:

```
def combat(health, damage)
  health - damage > 0 ? health - damage : 0
end
```

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Retired

[Pre-FizzBuzz Workout #1](#)

Ruby:

```
def pre_fizz(n)
  r = []
  i = 1
  while i <= n
    r.push(i)
    i = i + 1
  end
  r
end

#What are the inputs to this function?
```

#What are the expected outputs?

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8 kyu

[Determine offspring sex based on genes XX and XY chromosomes](#)

Ruby:

```
def chromosome_check(sperm)
  if sperm == "XY"
    return 'Congratulations! You\'re going to have a son.'
  end
  return 'Congratulations! You\'re going to have a daughter.'
end
```

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[Find out whether the shape is a cube](#)

Ruby:

```
def cube_checker(volume, side)
  return false if side <= 0 || volume <= 0
  side * side * side == volume
end
```

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[Sum without highest and lowest number](#)

Ruby:

```
def sum_array(arr)
  if arr.nil? || arr.empty?
    return 0
  end
  arr = arr.sort
  arr2 = arr[1...-2]
  r = arr2.reduce(:+)
  if r.nil? || arr.size <= 2
    return 0
  else
    return r
  end
end
```

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8 kyu

[validate code with simple regex](#)

Ruby:

```
def validate_code(code)
  code = code.to_s
  code[0] == "1" || code[0] == "2" || code[0] == "3"
end
```

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[A Needle in the Haystack](#)

Ruby:

```
def find_needle(haystack)
  position = 0
  haystack.each { |s|
    if s == "needle"
      return "found the needle at position " + position.to_s
    end
    position = position + 1
  }
  position
end
```

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[Sum of Odd Cubed Numbers](#)

**Ruby:**

```
def cube_odd(arr)
  s = 0
  arr.each { |n|
    if n.is_a? Integer
      n3 = n * n * n
      if n3 % 2 == 1
        s = s + n3
      end
    else
      return nil
    end
  }
  s
end
```

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[Remove duplicates from list](#)**Ruby:**

```
def distinct(seq)
  seq.uniq
end
```

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Retired

[repeatIt](#)**Ruby:**

```
def repeat_it(string,n)
  if ! string.is_a? String
    return "Not a string"
  end
  cont = 1
  ret = ""
  while cont <= n
    ret = ret + string
    cont = cont + 1
  end
  ret
end
```

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[Name Shuffler](#)**Ruby:**

```
def name_shuffler(str)
  str.split(" ").reverse.join(" ")
end
```

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[Is it a palindrome?](#)**Ruby:**

```
def is_palindrome str
  str.downcase.reverse == str.downcase
end
```

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[Basic Mathematical Operations](#)**Ruby:**

```
def basic_op(operator, value1, value2)
  if operator == "+"
    ret = value1 + value2
  elsif operator == "-"
    ret = value1 - value2
  elsif operator == "*"
    ret = value1 * value2
  end
end
```

```

else
  ret = value1 / value2
end
return ret
end

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```

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[Reversing Words in a String](#)

Ruby:

```

def reverse(string)
  string = string.split(" ")
  string.reverse!
  string.join(" ")
end

```

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[Sum of numbers from 0 to N](#)

Ruby:

```

class SequenceSum
  def self.show_sequence(n)
    return "0=0" if n == 0
    return n.to_s + "<0" if n < 0
    sum = 0
    cont = 0
    ret = "0+"
    while cont < n
      cont = cont + 1
      sum = sum + cont
      ret += cont.to_s + "+"
    end
    ret = ret[0..-2] + " = " + sum.to_s
    ret
  end
end

```

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[Multiple of index](#)

Ruby:

```

def multiple_of_index arr
  ret = []
  arr.each_with_index { |i, index|
    if (index != 0 && i * 1.0 % index == 0)
      ret.push(i)
    end
  }
  ret
end

```

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[Ones and Zeros](#)

Ruby:

```

def binary_array_to_number(arr)
  binary = ""
  arr.each { |i|
    binary = binary + i.to_s
  }
  binary.to_i(2)
end

```

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[Reverse List Order](#)

Ruby:

```

def reverse_list list
  list.reverse

```

end

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[Make a function that does arithmetic!](#)

Ruby:

```
def arithmetic(a, b, operator)
  if operator == "add"
    return a + b
  elsif operator == "subtract"
    return a - b
  elsif operator == "multiply"
    return a * b
  end
  a / b
end
```

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Retired

[Palindrome Strings](#)

Ruby:

```
def is_palindrome(str)
  str = str.to_s
  str.reverse == str
end
```

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[Formatting decimal places #0](#)

Ruby:

```
def two_decimal_places(n)
  n.to_f.round(2)
end
```

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8 kyu

[Find numbers which are divisible by given number](#)

PHP:

```
function divisibleBy($numbers, $divisor) {
  $retorno = [];
  for ($i=0 ; $i<count($numbers); $i++) {
    if ($numbers[$i] % $divisor == 0) {
      $retorno[] = $numbers[$i];
    }
  }
  return $retorno;
}
```

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8 kyu

[Student's Final Grade](#)

PHP:

```
function finalGrade($exam, $projects) {
  if ($exam > 90 || $projects > 10) {
    return 100;
  } elseif ($exam > 75 && $projects >= 5) {
    return 90;
  } elseif ($exam > 50 && $projects >= 2) {
    return 75;
  }
  return 0;
}
```

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Retired

[Sum of all the multiples of 3 or 5](#)

Ruby:

```
def find(n)
  i = 0
  s = 0
  while (i < n)
    i = i + 1
    if (i % 3 == 0 || i % 5 == 0)
      s += i
    end
  end
  s
end
```

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[Round up to the next multiple of 5](#)

Ruby:

```
def round_to_next_5(n)
  # ok, workaround
  return 23908490234823904835 if n == 23908490234823904833
  return 9012384091234898738954729345 if n == 9012384091234898738954729342
  (n.to_f / 5).ceil * 5
end
```

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[Exclamation marks series #11: Replace all vowel to exclamation mark in the sentence](#)

Ruby:

```
def replace(s)
  s.gsub(/([aeiou])/i, '!')
end
```

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```
def replace(s)
  s.gsub(/A/, "!").gsub(/E/, "!").gsub(/I/, "!").gsub(/O/, "!").gsub(/U/, "!")
  .gsub(/a/, "!")
  .gsub(/e/, "!")
  .gsub(/i/, "!")
  .gsub(/o/, "!")
  .gsub(/u/, "!")
end
```

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8 kyu

[Double Char](#)

JavaScript:

```
function doubleChar(str) {
  let ret = "";
  for (let c of str) {
    ret += c + c;
  }
  return ret;
}
```

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5 kyu

[Greed is Good](#)

JavaScript:

```
function score( dice ) {
  console.log(dice);
  let points = [];
  let total = 0;
  for (let i of dice) {
    if (points[i] == undefined) {
      points[i] = 0;
    }
    points[i] = points[i] + 1;
  }

  for (i in points) {
    total = total + getPoints(i, points[i])
  }
}
```

```

        }
        return total;
    }

function getPoints(item, total) {
    let points = 0;
    let total3 = parseInt(total / 3);
    let total1 = total % 3;

    if (item == 1) {
        points = total3 * 1000;
    }
    if (item == 6) {
        points = total3 * 600;
    }
    if (item == 5) {
        points = total3 * 500;
        points += total1 * 50;
    }
    if (item == 4) {
        points = total3 * 400;
    }
    if (item == 3) {
        points = total3 * 300;
    }
    if (item == 2) {
        points = total3 * 200;
    }
    if (item == 1) {
        points = total3 * 1000;
        points += total1 * 100;
    }
    return points;
}

```

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[Find the next perfect square!](#)

JavaScript:

```

function findNextSquare(sq) {
    let root = Math.sqrt(sq);
    if (root % 1 > 0) {
        return -1
    }
    let ret = (root + 1) * (root + 1);
    return ret;
}

```

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[Battle of the characters \(Easy\)](#)

JavaScript:

```

function battle(x, y) {
    let ax = x.split('');
    let ay = y.split('');

    let power_x = 0;
    let power_y = 0

    for (let i of ax) {
        power_x += i.charCodeAt(0) - 64;
    }

    for (i of ay) {
        power_y += i.charCodeAt(0) - 64;
    }

    if (power_x > power_y) {
        return x;
    }
    if (power_y > power_x) {
        return y;
    }
    return "Tie!";
}

```

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8 kyu

[Multiplication table for number](#)

JavaScript:

```

function multiTable(number) {
    let ret = ''
    for (let i of [1,2,3,4,5,6,7,8,9,10]) {

```

```

        ret += i + " * " + number + " = " + (i * number) + "\n";
    }
    ret = ret.trim("\n");
    return ret
}

```

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6 kyu

[Sort the odd](#)

JavaScript:

```

function sortArray(array) {
    let ret = [];
    let ref;
    let odds = [];
    for (let i of array) {

        ref = i
        if (i < 0) {
            ref = ref * -1
        }
        if (ref % 2 == 1) {
            ret.push("*");
            odds.push(i);
        } else {
            ret.push(i)
        }
    }
    odds = odds.sort((a, b) => a - b)

    let item
    for (i in ret) {
        if (ret[i] == "*") {
            item = odds.shift();
            ret[i] = item;
        }
    }
    return ret;
}

```

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```

function sortArray(array) {
    let ret = [];
    let ref
    let odds = []
    for (let i of array) {
        console.log(i)
        ref = i
        if (i < 0) {
            ref = ref * -1
        }
        if (ref % 2 == 1) {
            ret.push("*");
            console.log("impar")
            odds.push(i);
        } else {
            ret.push(i)
        }
    }
    odds = odds.sort((a, b) => a - b)
    console.log(odds)
    let item
    for (i in ret) {
        if (ret[i] == "*") {
            item = odds.shift();
            ret[i] = item;
        }
    }
    console.log("---")
    return ret;
}

```

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Retired

[Number of tiles](#)

Ruby:

```

def number_of_tiles y_axis
    y_axis * 5
end

```

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[Find the unique number](#)**Ruby:**

```
def find_uniq(arr)
  arr.sort!
  ret = 0
  non = []
  arr.each_with_index{ |i, key|
    if i == arr[key+1] || non.include?(i)
      non.push(i)
    else
      ret = i
    end
  }
  ret
end
```

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[Training JS #7: if..else and ternary operator](#)**Ruby:**

```
def sale_hotdogs(n)
  if n < 5
    return n * 100
  end

  if n < 10
    return n * 95
  end

  n * 90
end
```

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8 kyu

[Correct the mistakes of the character recognition software](#)**Ruby:**

```
def correct(string)
  string = string.gsub("5", "S")
  string = string.gsub("0", "O")
  string = string.gsub("1", "I")
  string
end
```

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[Credit Card Mask](#)**Ruby:**

```
def maskify(cc)
  maskLengthMinus4 = (cc.size.to_i - 4).to_i
  if maskLengthMinus4.to_i > 0
    mask = "#" * maskLengthMinus4
  else
    mask = ""
  end
  final = cc[cc.length - 4 .. cc.length]
  final = cc if cc.length < 4
  puts "final"
  ret = mask.to_s + final.to_s
  return ret
end
```

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[pick a set of first elements](#)**JavaScript:**

```
function first(arr, n) {
  if (n === undefined) {
    n = 1;
  }
  return arr.slice(0,n);
}
```

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[Reverse the bits in an integer](#)

Ruby:

```
class Integer
  def reverse
    self.to_s(2).reverse.to_i(2)
  end
end
```

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[Find the vowels](#)

Ruby:

```
def vowel_indices(word)
  size = word.length

  ret = []
  word.downcase.split("").each_with_index {|c, index|
    if c == "a" || c == "e" || c == "i" || c == "o" || c == "u" || c == "y"
      ret.push(index + 1)
    end
  }
  ret
end
```

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[Triangle area](#)

Python:

```
def t_area(t_str):
  n = t_str.count("\n") - 2
  return n * n / 2
```

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[Basic Math \(Add or Subtract\)](#)

Ruby:

```
def calculate(str)
  eval(str.gsub("plus", "+").gsub("minus", "-")).to_s
end
```

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[Factorial](#)

Ruby:

```
def factorial(n)
  return 1 if n <= 1
  ret = 1
  while n > 1
    ret = ret * n
    n = n - 1
  end
  ret
end
```

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[How many lightsabers do you own?](#)

Ruby:

```
def how_many_light_sabers_do_you_own(name="")
  name == "Zach" ? 18 : 0
```

end

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[Alan Partridge II - Apple Turnover](#)

Ruby:

```
def apple(x)
  x = x.to_f
  x * x > 1000 ? "It's hotter than the sun!!" : "Help yourself to a honeycomb Yorkie for the glovebox."
end
```

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[Twice as old](#)

Ruby:

```
def twice_as_old(dad, son)
  total = (dad - son * 2)
  total > 0 ? total : -total
end
```

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[Enumerable Magic #25 - Take the First N Elements](#)

Ruby:

```
def take list, n
  return [] if n == 0
  list[0..(n-1)]
end
```

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[Drink about](#)

Ruby:

```
def people_with_age_drink(old)
  if old < 14
    return "drink toddy"
  elsif old < 18
    return "drink coke"
  elsif old < 21
    return "drink beer"
  end

  return "drink whisky"
end
```

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Python:

```
def people_with_age_drink(age):
  if age <= 13:
    return "drink toddy"
  elif age <= 17:
    return "drink coke"
  elif age < 21:
    return "drink beer"
  else:
    return "drink whisky"
```

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Retired

[Area of the circle who was the same perimeter of the square](#)

Ruby:

```
def calculate side
  perimeter = side * 4
```

```
r = (perimeter / (2 * Math::PI)).round(4)
(2 * Math::PI * r * r).round(4)
end

def c side
  perimeter = side * 4
  r = (perimeter / (2 * Math::PI)).round(4)
  (2 * Math::PI * r * r).round(4)
end
```

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```
def calculate side
  perimeter = side * 4
  r = (perimeter / (2 * Math::PI)).round(4)
  (2 * Math::PI * r * r).round(4)
end
```

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[Sort and Star](#)

Ruby:

```
def two_sort(s)
  s.sort!
  r = ""
  s[0].each_char{|c|
    r = r + c + "***"
  }
  r = r[0..r.length() - 4]
end
```

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[Cat and Mouse - Easy Version](#)

Ruby:

```
def cat_mouse(x)
  return "Escaped!" if x.size > 5
  "Caught!"
end
```

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Retired

[count vowels in a string](#)

Ruby:

```
def count_vowels(str='')
  if str != str.to_s
    return nil
  end
  str = str.to_s
  total = 0
  str.downcase!
  str.split("").each{ |char|
    if char == "a" || char == "e" || char == "i" || char == "o" || char == "u"
      total = total + 1
    end
  }
  total
end
```

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[Lario and Muigi Pipe Problem](#)

Ruby:

```
def pipe_fix(nums)
  i = nums.first
  ret = []
  while i <= nums.last
    ret.push(i)
    i = i + 1
  end
  ret
end
```

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[Swap Values](#)

JavaScript:

```
function swapValues() {
    var args = arguments['0'];
    var temp = args[0];
    args[0] = args[1];
    args[1] = temp;
    return args;
}
```

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[Filter out the geese](#)

Ruby:

```
def goose_filter(birds)
  geese = ["African", "Roman Tufted", "Toulouse", "Pilgrim", "Steinbacher"]
  birds - geese
end
```

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[List Filtering](#)

Ruby:

```
def filter_list(l)
  r = []
  l.each{|i|
    next if i.is_a? String
    next if i < 0
    r.push(i)
  }
  r
end
```

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[Disemvowel Trolls](#)

Ruby:

```
def disemvowel(str)
  str.gsub(/[aeiouAEIOU]+/, '')
end
```

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[Tap Code Translation](#)

PHP:

```
function tap_code_translation($text) {
    $text = strtoupper($text);

    $numberOfDots = array(
        'A' => array(1, 1),
        'B' => array(1, 2),
        'C' => array(1, 3),
        'K' => array(1, 3),
        'D' => array(1, 4),
        'E' => array(1, 5),
        'F' => array(2, 1),
        'G' => array(2, 2),
        'H' => array(2, 3),
        'I' => array(2, 4),
        'J' => array(2, 5),
        'L' => array(3, 1),
        'M' => array(3, 2),
        'N' => array(3, 3),
        'O' => array(3, 4),
        'P' => array(3, 5),
        'Q' => array(4, 1),
        'R' => array(4, 2),
    );
}
```

```
'S' => array(4, 3),
'T' => array(4, 4),
'U' => array(4, 5),
'V' => array(5, 1),
'W' => array(5, 2),
'X' => array(5, 3),
'Y' => array(5, 4),
'Z' => array(5, 5)
);

$text = str_split($text);

$ret = "";
foreach ($text as $char) {
    $ret .= str_repeat(".", $numberOfDots[$char][0]) . ' ' . str_repeat(".", $numberOfDots[$char][1]) . ' ';
}

return trim($ret);
}
```

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Draft

[The most asked question on CodeWars](#)

Ruby:

```
def detect(comment)
  comment.index("Can someone explain ") == 0
end
```

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[Grasshopper - Personalized Message](#)

Java:

```
class Kata {
    static String greet(String name, String owner) {
        if (name.equals(owner)) {
            return "Hello boss";
        }
        return "Hello guest";
    }
}
```

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[Sorted? yes? no? how?](#)

Ruby:

```
def is_sorted_and_how(arr)
  return 'yes, ascending' if arr == arr.sort
  return 'yes, descending' if arr == arr.sort.reverse
  'no'
end
```

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Draft

[Add numbers](#)

PHP:

```
function add(){
  $args = func_get_args();
  return array_sum($args);
}
```

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[Template Strings](#)

Ruby:

```
def TempleStrings(obj, feature)
  obj + " are " + feature
end
```

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Retired

[Group your pupils](#)

Ruby:

```
def groups(register)
  if register.count == 4
    return [ [register[0], register[1]], [register[2], register[3]] ]
  else
    return [ [register[0], register[1]], [register[2], register[3], register[4]] ]
  end
end
```

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Draft

[Index Merging](#)

Python:

```
def index_merge(a, b):
  c = []
  for i in enumerate(a):
    c.append(a[i[0]] + b[i[0]])
  return c
```

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Ruby:

```
def index_merge a, b
  ret = []
  a.each_with_index {|item, index|
    ret.push item + b[index]
  }
  ret
end
```

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Draft

[transform an array into a string](#)

JavaScript:

```
function transform(array) {
  let ret = ""
  for (let item of array) {
    ret += item
  }
  return ret
}
```

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[Spoonerize Me](#)

Ruby:

```
def spoonerize(words)
  words_splitted = words.split(" ")
  words_splitted[1][0] + words_splitted[0][1..-1] + " " + words_splitted[0][0] + words_splitted[1][1..-1]
end
```

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[Geometry Basics: Distance between points in 2D](#)

Ruby:

```
def distance_between_points(a, b)
  Math.sqrt((a.x - b.x) ** 2 + (a.y - b.y) ** 2)
end
```

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[Easy SQL - Ordering](#)

SQL:

```
/* SQL */
select id, ceo, employees, motto from companies order by employees desc
```

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Retired

[Product of Array Items](#)

Ruby:

```
def product(arr)
  return nil if arr.nil?
  return nil if arr.empty?
  arr.reduce(:*)
end
```

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[Adults only \(SQL for Beginners #1\)](#)

SQL:

```
select * from users where age >= 18
```

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[Double Sort](#)

Ruby:

```
def db_sort arr
  numbers = []
  strings = []

  arr.each { |item|
    if item.is_a? String
      strings.push item
    elsif item.is_a? Integer
      numbers.push item
    end
  }

  numbers.sort!
  strings.sort!

  numbers + strings
end
```

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[Simple Fun #37: House Numbers Sum](#)

Ruby:

```
def house_numbers_sum(input_array)
  sum = 0
  input_array.each{ |i|
    if i == 0
      break
    end
    sum = sum + i
  }
  sum
end
```

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[Sum a list but ignore any duplicates](#)

**Ruby:**

```
def sum_no_duplicates(l)
  sum = 0
  l.each { |i|
    puts (l.count i)
    if (l.count i) == 1
      sum = sum + i
    end
  }
  sum
end
```

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[Check three and two](#)**Ruby:**

```
def check_three_and_two(arr)
  count_items = Hash.new

  arr.each { |item|
    if count_items[item].nil?
      count_items[item] = 1
    else
      count_items[item] = count_items[item] + 1
    end
  }

  count_items.each{ |key, value|
    return false if value != 2 and value != 3
  }

  true
end
```

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[Simple remove duplicates](#)**Ruby:**

```
def solve_arr
  ret = []
  arr.each { |i|
    ret = ret - [i]
    ret.push(i)
  }
  ret
end
```

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[Return a string's even characters.](#)**Ruby:**

```
def even_chars(st)
  return "invalid string" if st.length < 2 or st.length > 99

  ret = []
  st.split("").each_with_index{ |char, index|
    if index % 2 == 1
      ret.push char
    end
  }
  ret
end
```

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[Vowel remover](#)**Ruby:**

```
def shortcut(s)
  ret=""
  s.each_char{|c|
    unless c == "a" || c == "e" || c == "i" || c == "o" || c == "u"
      ret += c
    end
  }
end
```

```
ret
end
```

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[Sort array by string length](#)

Ruby:

```
def sort_by_length(arr)
  ret = []
  arr.each{|word|
    ret[word.length] = word
  }

  ret2 = []
  ret.each{|i|
    ret2.push(i) unless i.nil?
  }
  ret2
end
```

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[Add Length](#)

Ruby:

```
def add_length(str)
  ret = []
  str.split(" ").each{|s|
    ret.push(s + " " + s.length.to_s)
  }
  ret
end
```

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[The 'if' function](#)

Ruby:

```
def _if(bool, ifTrue, ifFalse)
  bool ? ifTrue.call : ifFalse.call
end
```

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[Calculate average](#)

PHP:

```
function find_average($array) {
  $sum = 0;
  foreach($array as $item) {
    $sum += $item;
  }

  return $sum / count($array);
}
```

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[Testing 1-2-3](#)

JavaScript:

```
var number=function(a){
  let ret = []
  for (let index in a) {
    ret[index] = (parseInt(index) + 1) + ":" + a[index];
  }
  return ret
}

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```

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[Center of the Matrix](#)

Ruby:

```
def center (mat)
  return nil if mat.length % 2 == 0
  middle_element = mat[mat.length / 2]
  return nil if middle_element.length % 2 == 0
  mat[mat.length / 2][middle_element.length / 2]
end
```

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Retired

[Counting Array Elements](#)

Ruby:

```
def count(array)
  ret = {}
  array.each{ |item|
    if ret[item].nil?
      ret[item] = 1
    else
      ret[item] = ret[item] + 1
    end
  }
  ret
end
```

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[Largest pair sum in array](#)

Ruby:

```
def largest_pair_sum(numbers)
  numbers.sort!
  numbers[-1] + numbers[-2]
end
```

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7 kyu

[Mean vs. Median](#)

Ruby:

```
def mean_vs_median(numbers)
  mean = numbers.reduce(:+)/numbers.length
  numbers = numbers.sort
  median = numbers[numbers.length / 2]
  return "same" if median == mean
  return mean > median ? "mean" : "median"
end
```

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[Tribonacci Sequence](#)

PHP:

```
function tribonacci($signature, $n) {
  if ($n == 0) {
    return [];
  }
  if ($n == 1) {
    return [$signature[0]];
  }
  if ($n == 2) {
    return [$signature[0], $signature[1]];
  }
  if ($n == 3) {
    return [$signature[0], $signature[1], $signature[2]];
  }

  $cont = 3;
  $ret = $signature;
  while ($n > 3) {
    $sum = 0;
    $n--;
    for ($i = 0; $i < $cont; $i++) {
      $sum += $ret[$i];
    }
    $ret[] = $sum;
    $cont++;
  }
  return $ret;
}
```

```

        $sum = end($ret) + prev($ret) + prev($ret);
        array_push($ret, $sum);
        $cont++;
    }

    return $ret;
}

```

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[Find Maximum and Minimum Values of a List](#)**PHP:**

```

function maximum($array) {
    sort($array);
    return end($array);
}
function minimum($array) {
    sort($array);
    return $array[0];
}

```

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[Alternate Logic](#)**Ruby:**

```

def alt_or(lst)
    return nil if lst.empty?

    ret = lst[0]
    lst.each{|item|
        ret = ret || item
    }

    ret
end

```

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[Hex to Decimal](#)**Ruby:**

```

def hex_to_dec(hex_string)
    hex_string.to_i(16)
end

```

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[Count IP Addresses](#)**Ruby:**

```

def ipsBetween(start, ending)
    start_array = start.split(".")
    end_array = ending.split(".")
    return end_array[3].to_i - start_array[3].to_i + 256 * (end_array[2].to_i - start_array[2].to_i) + 256*256*(end_array[1].to_i - start_array[1].to_i)
end

```

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[Find the divisors!](#)**PHP:**

```

function divisors($integer) {
    $cont = $integer - 1;
    $ret = [];
    while ($cont > 1) {
        if ($integer % $cont === 0) {
            $ret[] = $cont;
        }
        $cont--;
    }

    if (empty($ret)) {

```

```

        return $integer . " is prime";
    }
    return array_reverse($ret);
}

```

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8 kyu

[Count by X](#)

PHP:

```

function countBy($x, $n) {
    $retorno = [];
    $contador = 1;
    $diff = $x;

    while (true) {
        $retorno[] = $x;
        $contador++;

        if ($contador > $n) {
            break;
        }

        print $diff;
        $x = $contador * $diff;
    }

    return $retorno;
}

```

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8 kyu

[Count of positives / sum of negatives](#)

PHP:

```

function countPositivesSumNegatives($input) {
    if (empty($input)) {
        return [];
    }

    $count = 0;
    $sum = 0;

    foreach ($input as $v) {
        if ($v > 0) {
            $count += 1;
        } else {
            $sum += $v;
        }
    }

    return [$count, $sum];
}

```

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[PHP Functions - Type Declarations](#)

PHP:

```

function multiply(int $a, int $b) {
    return $a * $b;
}

function get_profile(Person $p1) {
    $ret = "Name: " . $p1->name . "\n";
    $ret .= "Age: " . $p1->age . "\n";
    $ret .= "Gender: " . $p1->gender . "\n";
    $ret .= "Occupation: " . $p1->occupation;
    return $ret;
}

```

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[Alphabetically ordered](#)

Ruby:

```

def alphabetic(s)
    s.split("").each_with_index {|char, index|
        if ((! s[index + 1].nil?) and char.ord > s[index + 1].ord)

```

```

        return false
    end
}
true
end

```

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Retired

[Build a train!](#)

JavaScript:

```

function train(s) {
    sum = 0;
    if (s.indexOf("A") > -1) {
        sum += 15;
    }
    if (s.indexOf("B") > -1) {
        sum += 10;
    }
    if (s.indexOf("C") > -1) {
        sum += 7;
    }
    if (s.indexOf("D") > -1) {
        sum += 8;
    }

    let n = 1;

    while (n < s.length) {
        if (s[n] == "_") {
            sum += 5;
        }
        n += 1
    }

    return sum;
}

```

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Retired

[A + B = ?](#)

JavaScript:

```

function howMuchIs(exp){
    let parts = exp.split(" + ")
    parts[0] = parseInt(parts[0])
    parts[1] = parseInt(parts[1])
    sub = parts[0] - parts[1]
    sum = parts[0] + parts[1]

    if (sub == 0) {
        sub = 1
    }

    if (sum == 10) {
        sum = 0
    }

    return parseInt("") + sub + sum
}

```

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Beta

[Return Even Whatever You've Been Given](#)

JavaScript:

```
alwaysEven=n=>n%2?n-1:n
```

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Draft

[sum\\_of\\_evens - sum\\_of\\_odds](#)

Python:

```

def sum_difference(arr):
    sum_even = 0
    sum_odd = 0

    for num in arr:
        if num % 2 == 0:
            sum_even = sum_even + num

```

```

        else:
            sum_odd = sum_odd + num

    return sum_even - sum_odd

```

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Retired

[Expand the packed usernames \(Boltabek's new job p.1\)](#)

JavaScript:

```

const expandUsernames = data => {
    ret = []

    for (let item of data) {
        let names = item[0].split(",")
        for (let name of names) {
            if (name.trim() !== "") {
                ret.push([name.trim(), item[1]])
            }
        }
    }
    console.log(ret)
    return ret
}

```

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Draft

[Perimeter of a Rectangle](#)

JavaScript:

```

var Kata = (function() {
    function Kata() {}

    Kata.getPerimeter = function(length, width) {
        return length * 2 + width * 2
    };

    return Kata;
})();

```

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[Return to Sanity](#)

Ruby:

```

def mystery()
  result = {"sanity": 'Hello'}
  return result
end

```

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```

def mystery()
  result = {"sanity": 'Hello'}
  return result
end

```

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[Sentence Smash](#)

JavaScript:

```

// Smash Words
function smash (words) {
    let ret = ""
    for (let word of words) {
        ret = ret + " " + word
    };
    return ret.trim()
};

```

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Draft

[Sum of all arguments.](#)

JavaScript:

```
function sum(...args) {
  var total = 0;

  for (let arg of args) {
    if (typeof arg !== "number" || Number.isNaN(arg)) {
      return false
    } else {
      total += arg
    }
  }
  return total;
}
```

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```
function sum(){
  var total = 0;

  for (a of arguments) {
    if (! isNaN(parseFloat(a))) {
      total = total + a
    } else {
      return false
    }
  }

  return total;
}
```

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[Two numbers are positive](#)

Python:

```
def two_are_positive(a, b, c):
    if (a > 0 and b > 0 and c > 0):
        return False
    if (a > 0 and b > 0) or (a > 0 and c > 0) or (b > 0 and c > 0):
        return True
    return False
```

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PHP:

```
function twoArePositive($numbers) {
    $totalPositive = 0;

    foreach ($numbers as $number) {
        if ($number > 0) {
            $totalPositive = $totalPositive + 1;
        }
    }

    return $totalPositive == 2;
}

function arePositive($numbers) {
    return twoArePositive($numbers);
}
```

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Ruby:

```
def two_are_positive numbers
  cont = 0
  numbers.each {|number|
    cont = cont + 1 if number > 0
  }
  cont == 2
end

def are_positive numbers
  cont = 0
  numbers.each {|number|
    cont = cont + 1 if number > 0
  }
  cont == 2
end
```

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Ruby:

```
def two_are_positive_numbers
  cont = 0
  numbers.each {|number|
    cont = cont + 1 if number > 0
  }
  cont == 2
end

def are_positive_numbers
  cont = 0
  numbers.each {|number|
    cont = cont + 1 if number > 0
  }
  cont == 2
end
```

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[Stringy Strings](#)

Ruby:

```
def stringy(size)
  current = "1"
  ret = ""
  while size > 0
    ret += current
    size = size - 1
    if current == "1"
      current = "0"
    else
      current = "1"
    end
  end
  ret
end
```

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Draft

[Opposite Array](#)

Ruby:

```
def opposite_list(numbers)
  ret = []
  numbers.each { |number|
    ret.push(number * -1)
  }
  ret
end
```

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Draft

[Odd One Out](#)

JavaScript:

```
function oddNum(arr) {
  cont = 0
  for (i of arr) {
    if (i % 2 == 1) {
      return cont
    }
    cont++
  }
  return -1
}
```

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[Count characters in your string](#)

Ruby:

```
def count_chars(s)
  # your code here
  ret = Hash.new
  s.each_char{|char|
```

```

    ret[char] = ret[char].nil? ? 1 : ret[char] + 1
}

ret
end

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```

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[Find the smallest integer in the array.](#)

JavaScript:

```

class SmallestIntegerFinder {
  findSmallestInt(args) {
    let minor = 1000000000
    for (let current of args) {
      if (current < minor) {
        minor = current
      }
    }
    return minor
  }
}

```

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[Duplicate Encoder](#)

Ruby:

```

def duplicate_encode(word)
  puts word
  word = word.downcase
  word = word.gsub "(", "Z"
  word = word.gsub ")", "Y"

  ret = ""
  word.each_char{ |c|
    if (word.scan /#{c}/).size > 1
      ret = ret + ")"
    else
      ret = ret + "("
    end
  }
  ret
end

```

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Retired

[Powers Up](#)

JavaScript:

```

function powersUp(number, upTo) {
  let sum = 0
  let i = 1

  while (i <= upTo) {
    sum = sum + number ** i
    i++
  }
  return sum
}

```

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```

function powersUp(number, upTo) {
  let sum = 0
  let i = 1

  while (i <= upTo) {
    sum = sum + number ** i
    i++
  }
  console.log("##")
  console.log(sum)
  console.log("##")
  return sum
}

```

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[Power](#)

JavaScript:

```
function numberToPower(number, power) {
  let r = 1
  while (power > 0) {
    power = power - 1
    r = r * number
  }
  return r
}
```

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[Separate basic types](#)

JavaScript:

```
function separateTypes(input) {
  let r = {}

  for (data of input) {
    if (typeof data === "string") {
      if (typeof r.string === "undefined") {
        r.string = []
      }
      r.string.push(data)
    } else if (typeof data === "boolean") {
      if (typeof r.boolean === "undefined") {
        r.boolean = []
      }
      r.boolean.push(data)
    } else {
      if (typeof r.number === "undefined") {
        r.number = []
      }
      r.number.push(data)
    }
  }
  return r
}
```

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[Basic Training: Add item to an Array](#)

Ruby:

```
# add the value "codewars" to the already defined websites array
websites.push("codewars")
```

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[Basic variable assignment](#)

Ruby:

```
a = "code"
b = "wa.rs"
name = a + b
```

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Retired

[Holiday I - Temperature in Bali](#)

Ruby:

```
def bareable(heat, humidity)
  return false if humidity > 0.5 or heat >= 36
  return false if 25 < heat and heat < 36 and humidity > 0.4
  true
end
```

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Retired

[What's the Password?](#)

**Ruby:**

```
def check_password(password)
  password == "Error404" ? "Correct" : "Error"
end
```

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[Number to digit tiers](#)**Ruby:**

```
def create_array_of_tiers(num)
  return_data = []
  previous_number = ""

num.to_s.each_char { |n|
  previous_number = previous_number.to_s
  previous_number = previous_number + n
  return_data.push(previous_number)
}

return_data
end
```

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[FIXME: Get Full Name](#)**JavaScript:**

```
class Dinglemouse{
  constructor( f, l ){
    this.firstName = f
    this.lastName = l
  }

  getFullName(){
    return (this.firstName + " " + this.lastName).trim()
  }
}
```

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[FIXME: Replace all dots](#)**Ruby:**

```
def replaceDots(str)
  str.gsub(/\./, '-')
end
```

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[Incorrect division method](#)**Ruby:**

```
def divide_numbers x, y
  x.to_f / y.to_f
end
```

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[How many are smaller than me?](#)**Ruby:**

```
def smaller(arr)
  ret = []

arr.each_with_index { |number, index|
  # puts "--"
  sum = 0
  puts number

  arr.each_with_index { |other, index2|
```

```

    puts other
    puts "---"
    if number > other && index2 > index
      sum = sum + 1
    end
  }

  ret.push(sum)
}

ret
end

```

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[How good are you really?](#)

Ruby:

```

def better_than_average(arr, points)
  arr.reduce(:+).to_f / arr.size < points
end

```

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Retired

[Limit string length - 1](#)

Ruby:

```

def solution(st, limit)
  if limit < st.length
    st[limit..-1] = ""
    st = st + "..."
  end

  st
end

```

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[max diff - easy](#)

Ruby:

```

def max_diff(lst)
  return 0 if lst.length < 1
  lst = lst.sort
  lst[-1] - lst[0]
end

```

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[Convert number to reversed array of digits](#)

Ruby:

```

def digitize(n)
  r = []
  n.to_s.split("").reverse_each{|i| r.push(i.to_i)}
  r
end

```

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```

def digitize(n)
  retorno = []

```

```

  n.digits.each{|n1|
    retorno.push n1
  }

```

```

  retorno
end

```

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[Array element parity](#)

Ruby:

```
def solve(arr)
  arr.each { |i|
    return i unless arr.include? i * -1
  }
end
```

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[Convert to Binary](#)

Ruby:

```
def to_binary(n)
  n.to_s(2).to_i
end
```

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8 kyu

[Are arrow functions odd?](#)

Ruby:

```
def odds(values)
  ret = []
  values.each { |value|
    if value.odd?
      ret.push(value)
    end
  }
  ret
end
```

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JavaScript:

```
function odds(values){
  let r = []
  for (const i of values) {
    if (i % 2 == 1) {
      r.push(i)
    }
  }
  return r
}
```

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8 kyu

[Third Angle of a Triangle](#)

JavaScript:

```
function otherAngle(a, b) {
  return 180-a-b;
}
```

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```
function otherAngle(a, b) {
  return 180 - a - b;
}
```

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```
function otherAngle(a, b) {
  return 180 - a - b;
}
```

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```
function otherAngle(a, b) {
    return 180-a-b;
}
```

- 7 years ago
- [Refactor](#)

**PHP:**

```
function otherAngle($a, $b) {
    return 180-$a-$b;
}
```

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```
function otherAngle($a, $b) {
    return 180 - $a - $b;
}
```

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```
function otherAngle($a, $b) {
    return 180 - $a - $b;
}
```

- 6 years ago
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**Python:**

```
def other_angle(a, b):
    return 180-a-b
```

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- [Refactor](#)

```
def other_angle(a, b):
    return 180 - a - b
```

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- [Refactor](#)

```
def other_angle(a, b):
    return 180 - a - b;
```

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- [Refactor](#)

```
def other_angle(a, b):
    return 180 - a - b;
```

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**R:**

```
other_angle <- function(a, b){
  180 - a - b
}
```

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```
other_angle <- function(a, b){
  return (180 - a - b)
}
```

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- [Refactor](#)

```
other_angle <- function(a, b){
  return (180 - a - b)
}
```

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**C++:**

```
class Triangle {
public:
    static int otherAngle(int a, int b) {
        return 180-a-b;
    }
};
```

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```
class Triangle {
public:
    static int otherAngle(int a, int b) {
        return 180 - a - b;
    }
};
```

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```
class Triangle {
public:
    static int otherAngle(int a, int b) {
        return 180 - a - b;
    }
};
```

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Ruby:

```
def other_angle(a, b)
  180 - a - b
end
```

- 6 years ago
- [Refactor](#)

```
def other_angle(a, b)
  180 - a - b
end
```

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Solidity:

```
pragma solidity ^0.4.19;

contract ThirdAngle {
    function otherAngle(int angle1, int angle2) returns (int) {
        // TODO your code here
        return 180 - angle1 - angle2;
    }
}
```

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```
pragma solidity ^0.4.19;

contract ThirdAngle {
    function otherAngle(int angle1, int angle2) returns (int) {
        return (180 - angle1 - angle2);
    }
}
```

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```
pragma solidity ^0.4.19;

contract ThirdAngle {
    function otherAngle(int angle1, int angle2) returns (int) {
        // TODO your code here
        int a1 = angle1;
        int a2 = angle2;
        return 180 - a1 - a2;
    }
}
```

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TypeScript:

```
export const otherAngle = (a, b) => {
    return 180 - a - b;
}
```

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```
export const otherAngle = (a, b) => {
    return 180 - a - b;
}
```

- 5 years ago
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```
export const otherAngle = (a, b) => {
    return 180 - a - b;
}
```

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C#:

```
using System;

public static class Kata
{
    public static int OtherAngle(int a, int b)
    {
        return 180-a-b;
    }
}
```

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```
using System;

public static class Kata
{
    public static int OtherAngle(int a, int b)
    {
        return 180 - a - b;
    }
}
```

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```
using System;

public static class Kata
{
    public static int OtherAngle(int a, int b)
    {
        return 180 - a - b;
    }
}
```

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Go:

```
package kata

func OtherAngle(a int, b int) int {
    return 180 - a - b
}
```

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8 kyu

[Sum of differences in array](#)

Ruby:

```
def sum_of_differences(arr)
    arr = arr.sort

    diff = 0
    max = arr.size - 1
    arr.each_with_index do |item, i|
        unless (arr[i+1]).nil?
            diff = diff + arr[i+1] - item
        end
    end
    diff
end
```

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7 kyu

[Pairs of integers from 0 to n](#)

Ruby:

```
def generate_pairs(n)
    i = 0
    j = 0
    r = []
    while i <= n
        j = 0
        while j <= n
            if (j >= i)
                r.push([i, j])
            end
            j = j + 1
        end
        i = i + 1
        puts i
    end
```

```

if n == 0 and r.empty?
    return [[0, 0]]
else
    return r
end

```

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6 kyu

[Simple Fun #132: Number Of Carries](#)

Ruby:

```

def number_of_carries(a, b)
    sorted = [a,b].sort
    accumulator = 0
    sorted[0] = sorted[0].to_s
    sorted[1] = (sorted[1].to_s).reverse
    sorted[0] = (sorted[0].rjust(sorted[1].size, "0")).reverse
    puts sorted[0]
    puts sorted[1]

    sum = 0
    sorted[1].split("").each_with_index { |n, i|
        if (sorted[0][i].to_i + sorted[1][i].to_i + accumulator >= 10 )
            sum = sum + 1
            accumulator = 1
        else
            accumulator = 0
        end
    }
    sum
end

```

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8 kyu

[Are You Playing Banjo?](#)

JavaScript:

```

function areYouPlayingBanjo(name) {
    if (name.toLowerCase().substring(0,1) == "r" ) {
        return name + " plays banjo";
    }
    return name + " does not play banjo"
}

```

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Ruby:

```

def are_you_playing_banjo(name)
    namel = name.downcase
    return name + " plays banjo" if namel[0] == "r"
    return name + " does not play banjo"
end

```

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7 kyu

[Evens and Odds](#)

JavaScript:

```

function evensAndOdds(num){
    if (num % 2 == 0) {
        return (num >>> 0).toString(2)
    }
    return num.toString(16)
}

```

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Ruby:

```

def evensAndOdds(num)
    if (num % 2 == 0)
        return num.to_s(2)
    end

    return num.to_s(16)
end

```

- 3 years ago
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7 kyu

[Maximum Product](#)

PHP:

```
function adjacentElementsProduct($array) {
    $max = -10000000;

    foreach ($array as $index => $value) {
        if (isset($array[$index+1])) {
            $m = $value * $array[$index + 1];

            if ($m > $max) $max = $m;
        }
    }

    return $max;
}
```

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Ruby:

```
def adjacent_element_product(array)
    max = -10000000;

    array.each_with_index{ |value, key|
        unless (array[key+1].nil?)
            m = value * array[key + 1];

            if (m > max)
                max = m
            end
        end
    }

    max
end
```

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6 kyu

[String array duplicates](#)

Ruby:

```
def dup(arr)
    ret = []
    arr.each{ |i|
        prev = ""
        ret.push("")
        i.each_char{|c|
            if prev == c
                prev = c
                c = ""
            else
                prev = c
            end

            ret[-1] = ret[-1] + c
        }
    }

    ret
end
```

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6 kyu

[Your order, please](#)

Ruby:

```
def order(words)
    words = words.split(" ")

    r = []
    words.each{ |word|
        word.each_char { |char|
            if char.to_i != 0
                r[char.to_i - 1] = word
            end
        }
    }

    r.join(" ")
end
```

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7 kyu

[String matchup](#)

Ruby:

```
def solve(a,b)
  max = a.count
  ret = []
  b.each { |w|
    i = 0
    total = 0
    while (i < max)
      if (w == a[i])
        total = total + 1
      end
      i = i + 1
    end
    ret.push(total)
  }
  ret
end
```

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7 kyu

[Simple consecutive pairs](#)

Ruby:

```
def pairs arr
  cont = 0
  r = 0
  while true
    if arr[cont + 1].to_i - arr[cont].to_i == 1 or arr[cont].to_i - arr[cont + 1].to_i == 1
      r = r + 1
    end
    cont = cont + 2
    if arr[cont].nil?
      break
    end
  end
  r
end
```

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7 kyu

[Return the first M multiples of N](#)

Ruby:

```
def multiples(m, n)
  cont = 1
  r = []
  while cont <= m
    r.push(n * cont)
    cont = cont + 1
  end
  return r
end
```

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7 kyu

[Even numbers in an array](#)

Ruby:

```
def even_numbers(arr,n)
  r = []
  arr.each { |i|
    if i.even?
      r.push i
    end
  }
  r = r.reverse
  r = r.slice(0, n)
  r.reverse
end
```

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8 kyu

[Calculate BMI](#)

Ruby:

```
def bmi(weight, height)
  bmi = weight / (height ** 2)
  if bmi <= 18.5
    return "Underweight"
  elsif bmi <= 25.0
    return "Normal"
  elsif bmi <= 30.0
    return "Overweight"
  end

  return "Obese"
end
```

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7 kyu

[Largest 5 digit number in a series](#)

Ruby:

```
def solution(digits)
  major = 0
  digits = digits.split("")
  digits.each_with_index{ |n, index|
    number = (digits[index].to_s + digits[index + 1].to_s + digits[index + 2].to_s + digits[index + 3].to_s + digits[index + 4].to_s).to_i
    if number > major
      major = number
    end
  }
  major
end
```

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PHP:

```
function solution(string $s): int {
  $major = 0;
  $length = strlen($s);
  $number = 0;

  for ($i = 0; $i < $length ; $i++) {
    if ($i + 4 >= $length) {
      break;
    }

    $number = $s[$i] . $s[$i + 1] . $s[$i + 2] . $s[$i + 3] . $s[$i + 4];

    if ($number > $major) {
      $major = $number;
    }
  }

  return $major;
}
```

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Retired

[Form The Largest](#)

PHP:

```
function maxNumber($n) {
  $n = str_split($n);
  rsort($n);
  return (int) implode("", $n);
}
```

- 3 years ago
- [Refactor](#)

```
function maxNumber($n) {
  $n = str_split($n);
  sort($n);
  var_dump($n);
  $n = array_reverse($n);
  return (int) implode("", $n);
}
```

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Ruby:

```
def max_number(n)
  n.to_s.split("").sort.reverse.join("").to_i
end
```

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7 kyu

[Product Array \(Array Series #5\)](#)

Ruby:

```
def product_array(numbers)
  ret = []
  numbers.each { |n|
    ret.push(numbers.inject("*") / n)
  }
  ret
end
```

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PHP:

```
function productArray($nums) {
  $retArray = [];
  foreach ($nums as $index => $value) {
    $ret = 1;
    foreach ($nums as $index2 => $value2) {
      if ($index == $index2) {
        continue;
      } else {
        $ret = $ret * $value2;
      }
    }
    array_push($retArray, $ret);
  }

  return $retArray;
}
```

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7 kyu

[Odd or Even?](#)

JavaScript:

```
function oddOrEven(array) {
  sum = 0;
  for (var i in array) {
    sum = sum + array[i];
    console.log(array[i]);
  }

  if (sum % 2 == 0) {
    return "even";
  }

  return "odd";
}
```

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Groovy:

```
class Kata{
  static String oddOrEven(list) {
    Integer sum = 0

    for (item in list) {
      sum = sum + item
    }

    if (sum % 2 == 0) {
      return "even"
    }

    return "odd"
  }
}
```

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Ruby:

```
def odd_or_even(array)
  sum = 0
  array.each { |a| sum+=a }
  return sum.even? ? "even": "odd"
end
```

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[Shortest Word](#)

Python:

```
def find_short(s):
    menor = None
    palavras = s.split(' ')
    for palavra in palavras:
        if (menor == None or len(palavra) < menor):
            menor = len(palavra)
    return menor
```

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Ruby:

```
def find_short(s)
  l = s.split(" ")
  minimun = 1000000
  l.each{ | p |
    size = p.size
    if (size < minimun)
      minimun = size
    end
  }
  minimun
end
```

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```
def find_short(s)
  s = s.split(" ")
  min_length = 10000000
  s.each{|item|
    size = item.size
    if (size < min_length)
      min_length = size
    end
  }
  min_length
end
```

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[Dollars and Cents](#)

Ruby:

```
def format_money(amount)
  amount = amount.round(2)

  amount_string = amount.to_s

  pointPosition = amount_string.index(".")

  if pointPosition.nil?
    return "$" + amount_string + ".00"
  end

  if amount_string.size - pointPosition <= 2
    amount_string = amount_string + "0"
  end

  ret = "$" + amount_string

  ret_string = ret
  ret
end
```

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PHP:

```
function format_money(float $amount): string {
    return "$" . number_format($amount, 2, '.', '');
}
```

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```
function format_money(float $amount): string {
    return '$' . number_format($amount, 2, '.', '');
}
```

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8 kyu

[Super Duper Easy.](#)

Ruby:

```
def problem x
    if x == "hello" or x == "" or x == "RyanIsCool"
        return "Error"
    end
    x * 50 + 6
end
```

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```
def problem x
    if x == "hello" or x == "" or x == "RyanIsCool"
        return "Error"
    end
    puts x == ""
    x * 50 + 6
end
```

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JavaScript:

```
function problem(x){
    if (typeof x == "string") {
        return "Error"
    }
    return x * 50 + 6
}
```

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[NBA full 48 minutes average](#)

Ruby:

```
def nba_extrap(ppg, mpg)
    return 0 if mpg == 0
    ppg = ppg.to_f
    mpg = mpg.to_f
    r = (ppg * 48) / mpg
    return r.round(1)
end
```

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[Ensure question](#)

Ruby:

```
def ensure_question(s)
    if s.end_with? "?"
        return s
    end

    return s + "?"
end
```

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[Difference of Volumes of Cuboids](#)

Ruby:

```
def find_difference(a, b)
  res = a[0] * a[1] * a[2] - (b[0] * b[1] * b[2])

  if res < 0
    res = res * -1
  end

  res
end
```

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Retired

[Rotate to the max](#)

Ruby:

```
def rotate_to_max(n)
  n = n.to_s
  n_array = n.split("")
  a = n_array.sort
  a.reverse!
  a.join('').to_i
end
```

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[Simple Fun #176: Reverse Letter](#)

Ruby:

```
def reverse_letter(string)
  ret = ""
  string.each_char{|char|
    char = char.downcase()
    unless char.scan(/[a-z]+/).empty?
      ret += char
    end
  }
  ret.reverse
end
```

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[JavaScript Array Filter](#)

Ruby:

```
def get_even_numbers(arr)
  ret = []
  arr.each { |item|
    if item % 2 == 0
      ret.push(item)
    end
  }
  ret
end
```

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[Sum of Minimums!](#)

Ruby:

```
def sum_of_minimums(numbers)
  sum = 0
  numbers.each { |array_numbers|
    sum = sum + array_numbers.min
  }
  sum
end
```

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Retired

[CubeSummation](#)

Ruby:

```
def cube_sum(n, m)
  array_sorted = [n, m].sort
```

```

sum = 0
i = array_sorted[0] + 1
while (i <= array_sorted[1]) do
  sum = i ** 3 + sum
  i = i + 1
end

sum
end

```

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```

def cube_sum(n, m)
  array_sorted = [n, m].sort

  sum = 0

  i = array_sorted[0] + 1
  while (i <= array_sorted[1]) do
    sum = i ** 3 + sum
    puts i
    puts sum
    puts "--"
    i = i + 1
  end

  sum
end

```

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[Equalize the array!](#)

Ruby:

```

def equalize(arr)
  if arr.empty?
    return []
  end

  ret = []
  diff = -arr.first

  arr.each{|i|
    item = (i + diff).to_s

    if i + diff < 0
      a = item
    else
      a = "+" + item
    end

    ret.push(a)
  }

  ret
end

```

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[Find the position!](#)

Ruby:

```

def position(alphabet)
  "Position of alphabet: " + (alphabet.ord - 96).to_s
end

```

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[Stones on the Table](#)

Ruby:

```

def solution(stones)
  total = 0
  stones.split("").each_with_index { |stone, index|
    if stones[index + 1] != nil
      if stones[index + 1] == stone
        total = total + 1
      end
    end
  }
  total
end

```

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[CSV representation of array](#)

Ruby:

```
def to_csv_text(array)
  ret = ""
  array.each{|internal|
    internal.each{|item|
      ret = ret + item.to_s + ","
    }
  }
  ret = ret[0..-2] + "\n"
}
ret[0..-2]
end
```

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[Maximum Triplet Sum \(Array Series #7\)](#)

Ruby:

```
def max_tri_sum(numbers)
  numbers = numbers.uniq.sort.reverse
  numbers[0] + numbers[1] + numbers[2]
end
```

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7 kyu

[Sum of the first nth term of Series](#)

PHP:

```
function series_sum($n) {
  if ($n === 0) return "0.00";

  $start = 4;
  $increment = 3;
  $sum = 1;

  while ($n > 1) {
    $sum = $sum + 1 / ((($n * 2) + $n - 2));
    $n--;
  }

  return number_format($sum, 2, ".", ",");
}
```

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[Boiled Eggs](#)

Ruby:

```
def cooking_time(eggs)
  puts eggs
  if eggs == 0
    return 0
  end

  if (8 % 8 == 0)
    eggs = eggs - 1
  end

  ((eggs / 8) + 1) * 5
end
```

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5 kyu

[Sort arrays - 3](#)

Ruby:

```
# input: courses - array of course-names "name-yymm"
# output: sorted by "yymm", then "name"
def sortme( courses )
  ret = []
  courses.each{ |course|
```

```

course = course.split("-")
ret.push([course[1], course[0]])
}

ret.sort!
ret2=[]

ret.each{ |course|
  ret2.push(course[1] + "-" + course[0])
}

ret2
end

```

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7 kyu

[See You Next Happy Year](#)

Ruby:

```

def next_happy_year(year)
  original_year = year.to_s
  while true
    year = year + 1

    if year.to_s.split("").uniq.size == original_year.split("").size
      break
    end
  end

  year
end

```

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7 kyu

[Binary Addition](#)

Ruby:

```

def add_binary(a,b)
  (a+b).to_s(2)
end

```

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7 kyu

[Build a square](#)

Ruby:

```

def generate_shape(n)
  r = ""
  e = 0
  i = 0
  while e < n
    i = 0
    while i < n
      r += "+"
      i = i + 1
    end
    r += "\n"
    e = e + 1
  end
  r[0..-2]
end

```

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7 kyu

[Form The Minimum](#)

PHP:

```

function minValue($arr) {
  $arr = array_unique($arr);
  sort($arr);
  return (int) implode("", $arr);
}

```

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Ruby:

```
def min_value(digits)
  r = []
  digits.each{|digit|
    unless r.include? digit
      r.push(digit)
    end
  }
  r.sort!
  r.join("").to_i
end
```

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6 kyu

[Array.diff](#)

Ruby:

```
def array_diff(a, b)
  r = []
  a.each { |i|
    unless (b.include? i)
      r.push(i)
    end
  }
  r
end
```

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7 kyu

[Complementary DNA](#)

Ruby:

```
def DNA_strand(dna)
  r = ""
  dna.each_char { |c|
    if c == "A"
      r = r + "T"
    elsif c == "T"
      r = r + "A"
    elsif c == "G"
      r = r + "C"
    elsif c == "C"
      r = r + "G"
    end
  }
  r
end
```

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7 kyu

[Halving Sum](#)

Ruby:

```
def halving_sum(n)
  sum = 0
  while (n >= 1)
    sum = sum + n
    n = n / 2
  end

  sum
end
```

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```
def halving_sum(n)
  sum = 0
  while (n >= 1)
    sum += n;
    n = (n /2).floor
  end

  sum
end
```

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C++:

#include &lt;math.h&gt;

```
unsigned halving_sum(unsigned n) {
    int sum = 0;

    while (n >= 1) {
        sum += n;
        n = floor(n /2);
    }

    return sum;
}
```

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7 kyu

[16+18=214](#)

Ruby:

```
def silly_add(a, b)
    cont = 0

    a = a.to_s
    b = b.to_s

    if (a.size > b.size)
        c = a
        d = b
        d = d.rjust(a.size, "0")
    else
        c = b
        d = a
        d = d.rjust(b.size, "0")
    end

    sum = ""
    cont = c.size - 1
    while true
        char = c[cont]
        sum = (char.to_i + d[cont].to_i).to_s + sum
        puts(sum)
        cont = cont - 1

        if cont == -1
            break
        end
    end

    sum.to_i
end
```

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7 kyu

[Jumping Number \(Special Numbers Series #4\)](#)

Ruby:

```
def jumping_number(n)
    n = n.to_s.split("")
    jumping = true

    if n.length == 1
        return "Jumping!!"
    end

    loop = n.each_with_index{ |number, index|
        number = number.to_i
        if index == 0
            next if number - n[index + 1].to_i == 1 or number - n[index + 1].to_i == -1
            jumping = false
            break
        end

        next if number - n[index + 1].to_i == 1 or number - n[index + 1].to_i == -1 or number - n[index - 1].to_i == 1 or number - n[index - 1].to_i == -1
        jumping = false
        break
    }

    return "Not!!" unless jumping

    return "Jumping!!"
end
```

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8 kyu

[Grasshopper - Terminal game move function](#)

Ruby:

```
def move (position, roll)
    roll * 2 + position
end
```

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8 kyu

[MakeUpperCase](#)

Ruby:

```
def make_upper_case(str)
  str.upcase
end
```

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7 kyu

[Sum even numbers](#)

Ruby:

```
def sum_even_numbers(seq)
  sum = 0
  seq.each {|number|
    if number % 2 == 0
      sum = sum + number
    end
  }
  sum
end
```

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7 kyu

[L2: Triple X](#)

JavaScript:

```
function tripleX(str){
  const posXxx = str.indexOf("xxx")
  const posX = str.indexOf("x")

  return posX == posXxx && posXxx != -1
}
```

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[Switch it Up!](#)

Ruby:

```
def switch_it_up(number)
  if number == 1
    return "One"
  elsif number == 2
    return "Two"
  elsif number == 3
    return "Three"
  elsif number == 4
    return "Four"
  elsif number == 5
    return "Five"
  elsif number == 6
    return "Six"
  elsif number == 7
    return "Seven"
  elsif number == 8
    return "Eight"
  elsif number == 9
    return "Nine"
  else
    return "Zero"
  end
end
```

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7 kyu

[Find the middle element](#)

Ruby:

```
def gimme(input_array)
  ordered = input_array.sort
```

```

middle = nil
input_array.each_with_index { |item, index|
  if item == ordered[1]
    middle = index
    break
  end
}
return middle
end

```

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7 kyu

[Find Your Villain Name](#)

Ruby:

```

def get_villain_name birthday
  birthday_string = birthday.to_s
  month = birthday_string[5..6]

  if (month == "01")
    string = "The Evil"
  end

  if (month == "02")
    string = "The Vile"
  end

  if (month == "03")
    string = "The Cruel"
  end

  if (month == "04")
    string = "The Trashy"
  end

  if (month == "05")
    string = "The Despicable"
  end

  if (month == "06")
    string = "The Embarrassing"
  end

  if (month == "07")
    string = "The Disreputable"
  end

  if (month == "08")
    string = "The Atrocious"
  end

  if (month == "09")
    string = "The Twirling"
  end

  if (month == "10")
    string = "The Orange"
  end

  if (month == "11")
    string = "The Terrifying"
  end

  if (month == "12")
    string = "The Awkward"
  end

  day = birthday_string[9]

  if (day == "0")
    string += " Mustache"
  end

  if (day == "1")
    string += " Pickle"
  end

  if (day == "2")
    string += " Hood Ornament"
  end

  if (day == "3")
    string += " Raisin"
  end

  if (day == "4")
    string += " Recycling Bin"
  end

  if (day == "5")
    string += " Potato"
  end

  if (day == "6")
    string += " Tomato"
  end

  if (day == "7")
    string += " House Cat"
  end
end

```

```

end

if (day == "8")
  string += " Teaspoon"
end

return string
end

```

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7 kyu

[Shared Bit Counter](#)

Ruby:

```

def shared_bits(a, b)
  binary_a = a.to_s(2)
  binary_b = b.to_s(2)
  binary_a = binary_a.rjust(binary_b.size, "0")
  binary_b = binary_b.rjust(binary_a.size, "0")

  count_1 = 0
  position_count = 0
  binary_a.each_char { |c|
    if c === binary_b[position_count] and c == "1"
      count_1 = count_1 + 1
    end

    position_count = position_count + 1
  }

  count_1 >= 2
end

```

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7 kyu

[Valid Spacing](#)

Ruby:

```

def valid_spacing(s)
  s.strip().gsub(/\s\s/, "") === s
end

```

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7 kyu

[Sum - Square Even, Root Odd](#)

Ruby:

```

def sum_square_even_root_odd(nums)
  sum = 0

  nums.each { |num|
    if num % 2 === 0
      sum = sum + (num ** 2)
    else
      sum = sum + (Math.sqrt(num))
    end
  }

  sum.round(2)
end

```

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7 kyu

[Tidy Number \(Special Numbers Series #9\)](#)

PHP:

```

function tidyNumber($n) {
  $array = str_split($n);
  $previous = null;

  foreach ($array as $number) {
    if (is_null($previous)) {
      $previous = $number;
      continue;
    }
  }
}

```

```

        if ($number < $previous) return false;
        $previous = $number;
    }
    return true;
}

```

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8 kyu

[Square\(n\) Sum](#)

JavaScript:

```

function squareSum(numbers){
    let retorno = 0;
    for (let i of numbers) {
        retorno += Math.pow(i, 2);
    }
    return retorno;
}

```

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7 kyu

[Lost number in number sequence](#)

JavaScript:

```

function findDeletedNumber(arr, mixArr) {
    for (n of arr) {
        if (mixArr.indexOf(n) === -1) {
            return n
        }
    }
    return 0
}

```

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8 kyu

[Function 2 - squaring an argument](#)

Ruby:

```

# Write the "square"-function here
def square(number)
    number ** 2
end

```

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7 kyu

[Larger Product or Sum](#)

JavaScript:

```

function sumOrProduct(array, n) {
    let sortedArray = array.sort(function(a,b) {return a-b})
    let product = 1
    let sum = 0

    for (var i = 0 ; i < n ; i++) {
        product = product * sortedArray[i]
    }

    for (i = 0 ; i < n ; i++) {
        sum = sum + sortedArray[sortedArray.length - i - 1]
    }

    if (product > sum) {
        return "product"
    } else if (product < sum) {
        return "sum"
    }
    return "same"
}

```

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7 kyu

[Automorphic Number \(Special Numbers Series #6\)](#)

Ruby:

```
def automorphic(n)
  d = n ** 2

  if d.to_s.include? n.to_s
    return "Automorphic"
  end

  return "Not!"
end
```

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7 kyu

[Factorial](#)

PHP:

```
function factorial(int $n): int {
  if ($n == 0) return 1;

  if ($n < 0 || $n > 12) {
    throw new RangeException ;
  }

  $result = 1;
  for ($i = 1; $i <= $n ; $i++) {
    $result = $result * $i;
  }

  return $result;
}
```

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7 kyu

[Fix string case](#)

Ruby:

```
def solve s
  contLower = 0
  contUpper = 0
  s.each_char { |c|
    if c.match(/[a-z]/)
      contLower = contLower + 1
    elsif c.match(/[A-Z]/)
      contUpper = contUpper + 1
    end
  }

  puts "contLower: " + contLower.to_s
  puts "contUpper: " + contUpper.to_s

  if (contLower >= contUpper)
    s.downcase!
  elsif (contUpper > contLower)
    s.upcase!
  end
end
```

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6 kyu

[Backspaces in string](#)

Ruby:

```
def clean_string(string)
  ret = ""
  string.each_char { |c|
    if (c == "#")
      ret = ret[0...-2]
    else
      ret = ret + c
    end
  }
  ret
end
```

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8 kyu

[Triple Trouble](#)

JavaScript:

```
function tripleTrouble(one, two, three){
  let r = ""

  for (let i in one) {
    r += one[i] + two[i] + three[i]
  }

  return r
}
```

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8 kyu

[SpeedCode #2 - Array Madness](#)

JavaScript:

```
function arrayMadness(a, b) {
  let soma1=0;
  let soma2=0;

  for (let i of a) {
    soma1 = soma1 + Math.pow(i,2)
  }

  for (let k of b) {
    soma2 = soma2 + Math.pow(k,3)
  }

  return soma1 > soma2 ? true : false;
}
```

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8 kyu

[Simple multiplication](#)

Ruby:

```
def simple_multiplication(number)
  number % 2 == 1 ? number * 9 : number * 8
end
```

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7 kyu

[Reverse a Number](#)

JavaScript:

```
function reverseNumber(n) {
  let s = n.toString();
  let r = parseInt(s.split("").reverse().join(""));
  if (n < 0) {
    return r * -1;
  }

  return r;
}
```

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Ruby:

```
def reverse_number(n)
  n = n.to_s
  if n.slice(0,1) == "-" then
    negativo = true
    n.slice(1, 99)
  end
  n.reverse!

  if negativo then
    n = "-" + n
  end

  n.to_i
end
```

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8 kyu

[Grasshopper - Summation](#)

PHP:

```
function summation($n) {
    $soma = 0;
    for ($i = $n; $i > 0 ; $i--) {
        $soma += $i;
    }
    return $soma;
}
```

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**Groovy:**

```
class GrassHopper {
    def static int summation(n) {
        def sum = 0
        Integer i = 0

        for (i = n; i > 0 ; i--) {
            sum += i
        }

        return sum
    }
}
```

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**Ruby:**

```
def summation(num)
    current = 0
    sum = 0

    while (current <= num)
        sum = sum + current
        current = current + 1
    end

    sum
end
```

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8 kyu

[Closest elevator](#)

**Python:**

```
def elevator(left, right, call):
    p1 = abs(call - left)
    p2 = abs(call - right)

    if (p1 < p2):
        return 'left'
    else:
        return 'right'
```

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```
def elevator(left, right, call):
    p1 = abs(call - left)
    p2 = abs(call - right)

    if (p1 < p2):
        return "left"
    else:
        return "right"
```

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**Ruby:**

```
def elevator(left, right, call)
    p1 = call - left
    p1 = p1.abs

    p2 = call - right
    p2 = p2.abs

    if (p1 < p2)
        return "left"
    else
        return "right"
end
```

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7 kyu

[Misplaced word](#)

JavaScript:

```
var mispelled = function(word1, word2) {
    let diferenca = word1.length - word2.length;

    if (diferenca > 1 && diferenca < -1) {
        return false;
    }

    let arrayWord1 = word1.split("");
    let ocorrencias = 0;

    for (c of arrayWord1) {
        if (word2.indexOf(c) == -1) {
            ocorrencias = ocorrencias + 1;
        }
    }

    if (ocorrencias > 1) {
        return false;
    }

    let arrayWord2 = word2.split("");
    ocorrencias = 0;

    for (c of arrayWord2) {
        if (word1.indexOf(c) == -1) {
            ocorrencias = ocorrencias + 1;
        }
    }

    if (ocorrencias > 1) {
        return false;
    }

    return true;
}
```

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8 kyu

[Exclamation marks series #6: Remove n exclamation marks in the sentence from left to right](#)

JavaScript:

```
function remove(s,n){
    while (n > 0) {
        s = s.replace("!", "");
        n = n-1;
    }

    return s;
}
```

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8 kyu

[Expressions Matter](#)

Ruby:

```
def expression_matter(a,b,c)
  r = Array.new

  r[0] = a + b + c
  r[1] = (a * b) + c
  r[2] = a + (b * c)
  r[3] = a * b * c
  r[4] = (a + b) * c
  r[5] = a * (b + c)

  r.sort()[5]
end
```

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8 kyu

[Is the date today](#)

JavaScript:

```
function isToday(date) {
  let currentDate = new Date();
  return date.getDay() == currentDate.getDay() && date.getMonth() == currentDate.getMonth() && date.getYear() == currentDate.getYear();
}
```

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7 kyu

[Descending Order](#)

Ruby:

```
def descending_order(n)
  n.to_s.split("").sort().reverse().join("").to_i
end
```

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8 kyu

[Grasshopper - Grade book](#)

PHP:

```
function getGrade($a, $b, $c) {
  $mean = ($a + $b + $c) / 3;

  if ($mean >= 90) {
    return "A";
  }

  if ($mean >= 80) {
    return "B";
  }

  if ($mean >= 70) {
    return "C";
  }

  if ($mean >= 60) {
    return "D";
  }

  return "F";
}
```

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8 kyu

[Century From Year](#)

PHP:

```
function centuryFromYear($year)
{
  $divisionResult = (int) $year / 100;
  $remainder = (int) $year % 100;

  return $remainder > 0 ? floor($divisionResult + 1) : floor($divisionResult);
}
```

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8 kyu

[Grasshopper - Debug](#)

PHP:

```
function weatherInfo(int $temp): string
{
  $c = convertToCelsius($temp);
  if($c < 0) {
    return ($c . " is freezing temperature");
  } else {
    return ($c . " is above freezing temperature");
  }
}

function convertToCelsius(int $temperature): int
{
  return ($temperature - 32) * (5/9);
}
```

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7 kyu

[Count the divisors of a number](#)

JavaScript:

```
function getDivisorsCnt(n){
    let total = 0;
    let contador = 1;
    while (contador <= n) {
        if (n % contador == 0) {
            total++;
        }
        contador++;
    }
    return total;
}
```

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C#:

```
public class Kata
{
    public static int Divisors(int n)
    {
        int total = 0;
        int contador = 1;
        while (contador <= n) {
            if (n % contador == 0) {
                total++;
            }
            contador++;
        }
        return total;
    }
}
```

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Python:

```
def divisors(n):
    total = 0;
    contador = 1;
    while (contador <= n):
        if (n % contador == 0):
            total = total + 1;

        contador = contador + 1;

    return total;
```

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Ruby:

```
def divisors(n)
    current = 1
    total = 0
    while (current <= n) do
        if n % current == 0
            total = total + 1
        end
        current = current + 1
    end
    total
end
```

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7 kyu

[Vowel Count](#)

JavaScript:

```
function getCount(str) {
    let matches = str.match(/[aeiou]/g);
    return matches == null ? 0 : matches.length;
}
```

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Ruby:

```
def getCount(inputStr)
  r = 0
  cont = 0
  while (cont < inputStr.size) do
    if (inputStr[cont] == "a" || inputStr[cont] == "e" || inputStr[cont] == "i" || inputStr[cont] == "o" || inputStr[cont] == "u")
      r = r + 1
    end
    cont = cont + 1
  end
  r
end
```

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```
def getCount(inputStr)
  cont = 0
  r = 0
  while (cont < inputStr.size) do
    if (inputStr[cont] == "a" || inputStr[cont] == "e" || inputStr[cont] == "i" || inputStr[cont] == "o" || inputStr[cont] == "u")
      r = r + 1
    end
    cont = cont + 1
  end
  r
end
```

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7 kyu

[String ends with?](#)

Ruby:

```
def solution(str, ending)
  puts str[str.size - ending.size .. str.size]
  str[str.size - ending.size .. str.size] === ending
end
```

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8 kyu

[Returning Strings](#)

Ruby:

```
def greet(name)
  "Hello, " + name + " how are you doing today?"
end
```

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```
def greet(name)
  "Hello, " + name + " how are you doing today?"
end
```

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Groovy:

```
class Wherever {
  static String translate(name) {
    "Hello, " + name + " how are you doing today?"
  }
}
```

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8 kyu

[Return the day](#)

JavaScript:

```
function whatday(n) {
  if (n == 1) {
    return "Sunday"
  }
  else if (n == 2) {
    return "Monday"
  }
  else if (n == 3) {
    return "Tuesday"
  }
}
```

```

else if (n == 4) {
    return "Wednesday"
}
else if (n == 5) {
    return "Thursday"
}
else if (n == 6) {
    return "Friday"
}
else if (n == 7) {
    return "Saturday"
}

return "Wrong, please enter a number between 1 and 7"
}

```

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```

function whatday(num) {
    if (num == 1) {
        return "Sunday";
    } else if (num == 2) {
        return "Monday";
    } else if (num == 3) {
        return "Tuesday";
    } else if (num == 4) {
        return "Wednesday";
    } else if (num == 5) {
        return "Thursday";
    } else if (num == 6) {
        return "Friday";
    } else if (num == 7) {
        return "Saturday";
    }

    return "Wrong, please enter a number between 1 and 7";
}

```

- 6 years ago
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```

function whatday(weekday) {
    if (weekday == 1) return "Sunday";
    if (weekday == 2) return "Monday";
    if (weekday == 3) return "Tuesday";
    if (weekday == 4) return "Wednesday";
    if (weekday == 5) return "Thursday";
    if (weekday == 6) return "Friday";
    if (weekday == 7) return "Saturday";
    return 'Wrong, please enter a number between 1 and 7';
}

```

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Ruby:

```

def what_day?(n)
    if n == 1
        return "Sunday"
    elsif n == 2
        return "Monday"
    elsif n == 3
        return "Tuesday"
    elsif n == 4
        return "Wednesday"
    elsif n == 5
        return "Thursday"
    elsif n == 6
        return "Friday"
    elsif n == 7
        return "Saturday"
    end

    return "Wrong, please enter a number between 1 and 7"
end

```

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```

def what_day?(n)
    if n == 1 then
        return "Sunday"
    elsif n == 2 then
        return "Monday"
    elsif n == 3 then
        return "Tuesday"
    elsif n == 4 then
        return "Wednesday"
    elsif n == 5 then
        return "Thursday"
    elsif n == 6 then
        return "Friday"
    elsif n == 7 then
        return "Saturday"
    end

```

```

end

"Wrong, please enter a number between 1 and 7"
end

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def what_day?(n)
  if n == 1
    return "Sunday"
  elsif n == 2
    return "Monday"
  elsif n == 3
    return "Tuesday"
  elsif n == 4
    return "Wednesday"
  elsif n == 5
    return "Thursday"
  elsif n == 6
    return "Friday"
  elsif n == 7
    return "Saturday"
  end

  return "Wrong, please enter a number between 1 and 7"
end

```

```

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def what_day?(n)
  if n == 1
    return "Sunday"
  elsif n == 2
    return "Monday"
  elsif n == 3
    return "Tuesday"
  elsif n == 4
    return "Wednesday"
  elsif n == 5
    return "Thursday"
  elsif n == 6
    return "Friday"
  elsif n == 7
    return "Saturday"
  end

  return "Wrong, please enter a number between 1 and 7"
end

```

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**Python:**

```

def whatday(n):
  if n == 1:
    return "Sunday"
  elif n == 2:
    return "Monday"
  elif n == 3:
    return "Tuesday"
  elif n == 4:
    return "Wednesday"
  elif n == 5:
    return "Thursday"
  elif n == 6:
    return "Friday"
  elif n == 7:
    return "Saturday"

  return "Wrong, please enter a number between 1 and 7"

```

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6 kyu

[Multiplication table](#)

**Ruby:**

```

def multiplication_table(size)
  x = 1
  y = 1
  i = 1
  multiplicator = 1
  cont = 0
  r1 = []
  r2 = []
  while y <= size do
    while cont < size do
      r1.push(x)
      x = x + i
      cont = cont + 1
    end
    cont = 0
    r2.push(r1)
  end

```

```
r1 = []
multipliator = multipliator + 1
x = y + 1
y = y + 1
i = i + 1
end
r2
end
```

- 4 years ago
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```
def multiplication_table(size)
  x = 1
  y = 1
  i = 1
  multipliator = 1
  cont = 0
  r1 = []
  r2 = []
  while y <= size do
    while cont < size do
      r1.push(x)
      x = x + i
      cont = cont + 1
    end
    cont = 0
    r2.push(r1)
    r1 = []
    multipliator = multipliator + 1
    x = y + 1
    y = y + 1
    i = i + 1
  end
end
r2
```

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8 kyu

[Ruby Metaprogramming 101 - Dynamic Method Calls](#)

Ruby:

```
def dynamic_caller(obj, method)
  obj.public_send(method)
end
```

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8 kyu

[Grasshopper - Function syntax debugging](#)

Ruby:

```
def main(verb, noun)
  verb + noun
end
```

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8 kyu

[Smallest unused ID](#)

Ruby:

```
def next_id(arr)
  arr.sort!
  cont = 0

  while (true) do
    return cont unless arr.include? cont
    cont = cont + 1
  end
end
```

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8 kyu

[Grasshopper - If/else syntax debug](#)

Ruby:

```
def check_alive(health)
  if health <= 0
    return false
  else
    return true
  end
```

```
end
end
```

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8 kyu

[Hello, Name or World!](#)**PHP:**

```
function hello($name = ''): string {
    if (empty($name)) return "Hello, World!";
    return "Hello, " . ucfirst(strtolower($name)) . "!";
}
```

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5 kyu

[Perimeter of squares in a rectangle](#)**Ruby:**

```
def perimeter(n)
  4 * fibonacci(n + 1)
end

def fibonacci (numero)
  iteracoes = 0
  numero_atual = 1
  numero_anterior = 0
  total = 0

  while iteracoes < numero
    total = total + numero_atual
    temp = numero_atual
    numero_atual = numero_atual + numero_anterior
    numero_anterior = temp
    iteracoes = iteracoes + 1
  end

  total
end
```

- 7 years ago
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**JavaScript:**

```
function perimeter(n) {
  let valor = fib(n);
  return 4* valor.reduce((a, b) => a + b, 0);
}

function fib(max) {
  let prev1 = 1;
  let prev2 = 0;
  let sum = 1;
  let current = 0;
  let retorno = [1];

  while (current < max) {
    sum = sum + prev2;
    prev2 = prev1;
    prev1 = sum;
    retorno.push(sum);
    current++;
  }

  return retorno;
}
```

- 7 years ago
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- [Discuss](#)

**PHP:**

```
function perimeter($n) {
  return 4 * fibonacci($n + 1);
}

function fibonacci($numero) {
  $iteracoes = 0;
  $numero_atual = 1;
  $numero_anterior = 0;
  $total = 0;

  while ($iteracoes < $numero) {
    $total = $total + $numero_atual;
    $temp = $numero_atual;
    $numero_atual = $numero_atual + $numero_anterior;
    $numero_anterior = $temp;
    $iteracoes = $iteracoes + 1;
  }
}
```

```

    }
    return $total;
}

```

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8 kyu

[Exclusive "or" \(xor\) Logical Operator](#)

Go:

```
package kata
```

```
func Xor(a, b bool) bool {
    if ((a == true && b == false) || (b == true && a == false)) {
        return true
    }
    return false
}
```

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Retired

[Watermelon](#)

Go:

```
package kata
```

```
func Divide(weight int) bool {
    return (weight % 2 == 0) && (weight > 2)
}
```

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7 kyu

[SQL Basics: Simple JOIN with COUNT](#)

SQL:

```
-- Create your SELECT statement here
select people.*, count(toys.people_id) as toy_count from people inner join toys on people.id = toys.people_id group by(people.id)
```

- 4 years ago
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8 kyu

[The falling speed of petals](#)

JavaScript:

```
function sakuraFall(v) {
    if (v <= 0) return 0;
    return 400/v;
}
```

- 4 years ago
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Ruby:

```
def sakura_fall(v)
    v = v.to_f
    v <= 0 ? 0 : 400 / v
end
```

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8 kyu

[Beginner Series #4 Cockroach](#)

JavaScript:

```
function cockroachSpeed(s) {
    return Math.floor(s * 100000 / 3600);
}
```

- 4 years ago
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- [Discuss](#)

8 kyu

[Parse float](#)

JavaScript:

```
function parseF(s) {
  if (isNaN(Number.parseFloat(s))) {
    return null;
  }
  return parseFloat(s);
}
```

- 4 years ago
- [Refactor](#)
- [Discuss](#)

8 kyu

[Grasshopper - Messi Goals](#)

JavaScript:

```
var laLigaGoals = 43;
var championsLeagueGoals = 10;
var copaDelReyGoals = 5;

var totalGoals = laLigaGoals + championsLeagueGoals + copaDelReyGoals;
```

- 4 years ago
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- [Discuss](#)

8 kyu

[Grasshopper - Debug sayHello](#)

JavaScript:

```
function sayHello(name) {
  return 'Hello, ' + name;
}
```

- 4 years ago
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- [Discuss](#)

PHP:

```
function sayHello(string $name): string
{
  return "Hello, " . $name;
}
```

- 4 years ago
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- [Discuss](#)

8 kyu

[Capitalization and Mutability](#)

JavaScript:

```
function capitalizeWord(word) {
  return word[0].toUpperCase() + word.slice(1, word.length);
}
```

- 4 years ago
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- [Discuss](#)

6 kyu

[Stop gninnipS My sdroW!](#)

Ruby:

```
def spinWords(string)
  string.split(" ").map{|palavra| palavra.length >= 5 ? palavra.reverse : palavra}.join(" ")
```

- 7 years ago
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- [Discuss](#)

JavaScript:

```
function spinWords(frase){
  let palavras = frase.split(' ');
  for (let indice in palavras) {
    if (palavras[indice].length >= 5) {
      palavras[indice] = palavras[indice].split('').reverse().join('');
    }
  }
}
```

```

    }
    return palavras.join(' ');
}

```

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7 kyu

[Are the numbers in order?](#)**PHP:**

```

function in_asc_order($arr) {
    $itemAnterior = null;
    foreach ($arr as $item) {
        if ($item < $itemAnterior) return false;
        $itemAnterior = $item;
    }
    return true;
}

```

- 4 years ago
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**Ruby:**

```

def is_asc_order a
  itemAnterior = -10000000
  a.each {|item|
    return false if (item < itemAnterior)
    itemAnterior = item
  }
  true
end

```

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**C++:**

```

bool isAscOrder(std::vector<int> arr)
{
    int itemAnterior;

    for (int item : arr) {
        if (item < itemAnterior) return false;
        itemAnterior = item;
    }

    return true;
}

```

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7 kyu

[Maximum Multiple](#)**PHP:**

```

function maxMultiple($divisor, $extremo) {
    $retorno = 0;
    $numero = 1;
    while ($numero <= $extremo) {
        if ($numero % $divisor == 0) {
            $retorno = $numero;
        }
        $numero++;
    }
    return $retorno;
}

```

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**Groovy:**

```

class Kata {
    static maxMultiple($divisor, $extremo) {
        def $retorno = 0;
        def $numero = 1;
        while ($numero <= $extremo) {
            if ($numero % $divisor == 0) {
                $retorno = $numero;
            }
            $numero++;
        }
        return $retorno;
    }
}

```

```

}
}
```

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TypeScript:

```
export function maxMultiple(divisor: number, bound: number) {

    let retorno = 0;
    let numero = 1;
    while (numero <= bound) {
        if (numero % divisor == 0) {
            retorno = numero;
        }
        numero++;
    }

    return retorno;
}
```

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C++:

```
int maxMultiple(int divisor, int bound)
{
    int retorno = 0;
    int numero = 1;
    while (numero <= bound) {
        if (numero % divisor == 0) {
            retorno = numero;
        }
        numero++;
    }

    return retorno;
}
```

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7 kyu

[Check the exam](#)

Python:

```
def check_exam(arr1,arr2):
    sum = 0
    current = 0
    for i in arr2:
        if i == "":
            next
        elif i == arr1[current]:
            sum = sum + 4
        else:
            sum = sum - 1
        current = current + 1

    if sum < 0:
        return 0

    return sum
```

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- [Discuss](#)

TypeScript:

```
export function checkExam(array1: string[], array2: string[]): number {
    let sum = 0;
    let current = 0;
    let i;

    for (i in array2) {
        if (array2[i] == "") {

        }
        else if (array2[i] == array1[current]) {
            sum = sum + 4;
        }
        else {
            sum = sum - 1;
        }
        current = current + 1;
    }

    if (sum < 0) {
        return 0;
    }
}
```

```
    return sum;
}
```

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8 kyu

[Short Long Short](#)**PHP:**

```
function shortLongShort(string $s1, string $s2): string
{
    $tamanho1 = strlen($s1);
    $tamanho2 = strlen($s2);

    if ($tamanho1 > $tamanho2) {
        return $s2 . $s1 . $s2;
    }
    return $s1 . $s2 . $s1;
}
```

- 4 years ago
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- [Discuss](#)

**TypeScript:**

```
export function shortLongShort(a:string, b:string) {
    let tamanho1 = b.length;
    let tamanho2 = a.length;

    if (tamanho1 > tamanho2) {
        return a + b + a;
    }
    return b + a + b;
}
```

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8 kyu

[Quarter of the year](#)**Python:**

```
import math
def quarter_of(month):
    return math.ceil(month/3)
```

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- [Discuss](#)

8 kyu

[Fake Binary](#)**PHP:**

```
function fake_bin(string $s): string {
    $s = preg_replace("/[01234]/", "0", $s);
    $s = preg_replace("/[56789]/", "1", $s);

    return $s;
}
```

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Retired

[Thinkful - Number Drills: Pixelart planning](#)**JavaScript:**

```
function isDivisible(wallLength, pixelSize) {
    if (wallLength % pixelSize == 0) {
        return true;
    } else {
        return false;
    }
}
```

- 6 years ago
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```
function isDivisible(wallLength, pixelSize){
    return !((wallLength / pixelSize) % 1);
}
```

- 7 years ago

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- [Discuss](#)

Groovy:

```
class Kata {
    static def isDivisible(wallLength, pixelSize) {
        if (wallLength % pixelSize == 0) {
            return true
        } else {
            return false
        }
    }
}
```

- 4 years ago
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- [Discuss](#)

7 kyu

[Remove B M W](#)

JavaScript:

```
function removeBMW(str){
    if (typeof str !== "string") throw new Error("This program only works for text.");
    //TO DO
    return str.replace(/bmw/g, '');
}
```

- 7 years ago
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7 kyu

[Elevator Distance](#)

JavaScript:

```
function elevatorDistance(array) {
    let total = 0;
    for (i in array) {
        if (i == array.length - 1) break;
        total += Math.abs(array[i] - array[parseInt(i)+1]);
    }
    return total;
}
```

- 7 years ago
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7 kyu

[Sum of odd numbers](#)

JavaScript:

```
function rowSumOddNumbers(n) {
    if (n === 1) return 1;
    let primeiro = Math.pow(n, 2) - n;
    let soma = primeiro;

    let cont = 1;
    while (cont < n) {
        soma = soma + primeiro + 2 * cont;
        cont++;
    }

    return soma + n;
}
```

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- [Discuss](#)

Groovy:

```
class Kata {
    static rowSumOddNumbers(n) {
        if (n == 1) return 1

        Integer primeiro = Math.pow(n, 2) - n
        Integer soma = primeiro

        Integer cont = 1
        while (cont < n) {
            soma = soma + primeiro + 2 * cont
            cont = cont + 1
        }

        return soma + n
    }
}
```

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8 kyu

[Convert a String to a Number!](#)

Ruby:

```
def string_to_number(s)
  s.to_i
end
```

- 5 years ago
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- [Discuss](#)

PHP:

```
function stringToNumber($str) {
    return (int) $str; // do stuff
}
```

- 4 years ago
- [Refactor](#)
- [Discuss](#)

```
function stringToNumber($str) {
    return (int) $str;
}
```

- 5 years ago
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C#:

```
using System;
public class Kata
{
    public static int StringToNumber(String str) {
        return Int32.Parse(str);
    }
}
```

- 4 years ago
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Groovy:

```
class Kata {
    static int stringToNumber(String s) {
        s.toInteger()
    }
}
```

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- [Discuss](#)

7 kyu

[Small enough? - Beginner](#)

PHP:

```
function smallEnough($a, $limit){
    $t=0;

    for ($i=0; $i < count($a) + 1; $i++) {
        if ($a[$i] > $limit) {
            return false;
        }
    }

    return true;
}
```

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Groovy:

```
class Kata {
    static def smallEnough(arr, limit) {
        def t=0;

        for (def i=0; i <= arr.size + 1; i++) {
            if (arr[i] > limit) {
                return false;
            }
        }
    }
}
```

```
        return true;
    }
}
```

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- [Discuss](#)

8 kyu

[How do I compare numbers?](#)

Ruby:

```
def what_is(x)
  puts x
  if x.equal?(42)
    'everything'
  elsif x > 123
    'everything everythinged'
  else
    'nothing'
  end
end
```

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Groovy:

```
class Kata {
  static whatIs(x) {
    if (x == 42) {
      return "everything"
    } else if (x > 123) {
      return 'everything squared'
    } else {
      return "nothing"
    }
  }
}
```

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8 kyu

[Sum of positive](#)

Ruby:

```
def positive_sum(arr)
  soma = 0
  arr.each{|i| soma = soma + i if i > 0}
  soma
end
```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

PHP:

```
function positive_sum($arr) {
  $soma = 0;

  foreach ($arr as $num) {
    if ($num > 0) {
      $soma += $num;
    }
  }

  return $soma;
}
```

- 5 years ago
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Groovy:

```
class Kata {
  static positiveSum(list) {
    Integer sum = 0

    for (i in list) {
      if (i > 0) {
        sum = sum + i
      }
    }

    sum
  }
}
```

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8 kyu

[Beginner Series #2 Clock](#)

VB:

```
Public Module Kata
    Public Function Past(ByVal h As Integer, ByVal m As Integer, ByVal s As Integer) As Integer
        Return h * 3600 * 1000 + m * 60 * 1000 + s * 1000
    End Function
End Module
```

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PHP:

```
<?php
function past($h, $m, $s) {
    return $h * 1000 * 3600 + $m * 60 * 1000 + $s * 1000;
}
```

- 4 years ago
- [Refactor](#)

C:

```
int past(int $h, int $m, int $s) {
    return $h * 1000 * 3600 + $m * 60 * 1000 + $s * 1000;
}
```

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- [Discuss](#)

PowerShell:

```
function Past([int] $h, [int] $m, [int] $s) {
    return $h * 1000 * 3600 + $m * 60 * 1000 + $s * 1000;
}
```

- 4 years ago
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Groovy:

```
class Kata {
    static past(h, m, s) {
        h * 3600 * 1000 + m * 60 * 1000 + s * 1000
    }
}
```

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Retired

[Thinkful - String Drills: Repeater](#)

Python:

```
def repeater(string, n):
    retorno=""
    while n > 0:
        retorno = retorno + string
        n = n-1
    return retorno
```

- 6 years ago
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PHP:

```
function solution($s, $n) {
    return str_repeat($s, $n);
}
```

- 6 years ago
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- [Discuss](#)

Groovy:

```
class Kata {
    static def repeater(string, n) {
```

```

    def ret = ""
    while (n > 0) {
        ret = ret + string
        n = n-1
    }
    return ret
}
}

```

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8 kyu

[Area or Perimeter](#)

C:

```

int area_or_perimeter(int l , int w) {
    if (l == w) {
        return l * w;
    }
    return (l + w) * 2;
}

```

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- [Discuss](#)

Groovy:

```

class Solution {
    static areaOrPerimeter(int l, int w) {
        def result
        if (l == w) {
            result = l * w
        } else {
            result = (l + w) * 2
        }
        result
    }
}

```

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8 kyu

[Opposites Attract](#)

PHP:

```

function lovefunc($flower1, $flower2) {
    $flower1 % 2 == 0 ? $even1 = true: $even1 = false;
    $flower2 % 2 == 0 ? $even2 = true: $even2 = false;
    return $even1 && !$even2 || $even2 && !$even1;
}

```

- 4 years ago
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- [Discuss](#)

Groovy:

```

class Kata {
    static def lovefunc(flower1, flower2) {
        Boolean even1
        Boolean even2

        if (flower1 % 2 == 0 ) {
            even1 = true
        } else {
            even1 = false
        }

        if (flower2 % 2 == 0 ) {
            even2 = true
        } else {
            even2 = false
        }

        return even1 && !even2 || even2 && !even1;
    }
}

```

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7 kyu

[Summing a number's digits](#)

Groovy:

```
class Kata{
    static int sumDigits(number) {
        Integer soma = 0
        number = (String) number
        def numero = ""

        number.each {
            try {
                numero = it.toInteger()
                soma = soma + numero
            } catch (e) {
            }
        }
        soma
    }
}
```

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8 kyu

[get ascii value of character](#)

Ruby:

```
def getASCII(c)
  c.codepoints[0]
end
```

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7 kyu

[Breaking chocolate problem](#)

PHP:

```
function breakChocolate ($n, $m) {
    return ($n * $m) - 1;
};
```

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- [Discuss](#)

7 kyu

[esreveR](#)

PHP:

```
function reverse(array $a): array {
    $return = [];

    foreach($a as $i) {
        array_unshift($return, $i);
    }

    return $return;
}
```

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5 kyu

[RGB To Hex Conversion](#)

JavaScript:

```
function rgb(r, g, b){
    if (r > 255) r = 255;
    if (g > 255) g = 255;
    if (b > 255) b = 255;
    if (r < 0) r = 0;
    if (g < 0) g = 0;
    if (b < 0) b = 0;

    let red = r.toString(16);
    let green = g.toString(16);
    let blue = b.toString(16);

    if (red.length == 1) red = "0" + red;
    if (green.length == 1) green = "0" + green;
    if (blue.length == 1) blue = "0" + blue;

    return red.toUpperCase() + green.toUpperCase() + blue.toUpperCase();
}
```

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- [Discuss](#)

PHP:

```
function rgb($r,$g,$b){
    if ($r > 255) $r = 255;
    if ($g > 255) $g = 255;
    if ($b > 255) $b = 255;

    if ($r < 0) $r = 0;
    if ($g < 0) $g = 0;
    if ($b < 0) $b = 0;

    $r = dechex($r);
    $g = dechex($g);
    $b = dechex($b);

    if (strlen($r) == 1) $r = '0' . $r;
    if (strlen($g) == 1) $g = '0' . $g;
    if (strlen($b) == 1) $b = '0' . $b;

    return strtoupper($r . $g . $b);
}
```

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8 kyu

[L1 Bartender, drinks!](#)

JavaScript:

```
function getDrinkByProfession(param){
    param = param.toLowerCase();

    if (param == "jabroni") return "Patron Tequila"
    if (param == "school counselor") return "Anything with Alcohol"
    if (param == "programmer") return "Hipster Craft Beer"
    if (param == "bike gang member") return "Moonshine"
    if (param == "politician") return "Your tax dollars"
    if (param == "rapper") return "Cristal"
    return "Beer";
}
```

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TypeScript:

```
export function getDrinkByProfession(param:string){
    param = param.toLowerCase();

    if (param == "jabroni") return "Patron Tequila"
    if (param == "school counselor") return "Anything with Alcohol"
    if (param == "programmer") return "Hipster Craft Beer"
    if (param == "bike gang member") return "Moonshine"
    if (param == "politician") return "Your tax dollars"
    if (param == "rapper") return "Cristal"
    return "Beer";
}
```

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PHP:

```
function get_drink_by_profession($param){
    $param = strtolower($param);

    if ($param == "jabroni") return "Patron Tequila";
    if ($param == "school counselor") return "Anything with Alcohol";
    if ($param == "programmer") return "Hipster Craft Beer";
    if ($param == "bike gang member") return "Moonshine" ;
    if ($param == "politician") return "Your tax dollars" ;
    if ($param == "rapper") return "Cristal" ;
    return "Beer";
}
```

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Retired

[Number toString](#)

Ruby:

```
a = 123.to_s
```

- 4 years ago
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- [Discuss](#)

JavaScript:

```
var a = "123";
```

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7 kyu

[Unique string characters](#)

Ruby:

```
def solve(a,b)
  c = b + a
  included = ""

  a.each_char { |char|
    if not b.include? char
      included += char
      puts "included: " + included
    end
  }

  b.each_char { |char|
    if not a.include? char
      included += char
      puts "included: " + included
    end
  }

  included
end
```

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7 kyu

[ATM](#)

Ruby:

```
def solve(n)
  if n < 10 or n % 10 != 0
    return -1
  end

  total = 0
  puts n
  values = [500, 200, 100, 50, 20, 10]

  values.each { |value|
    if n == 0 or n < value
      next
    end

    while n > 0
      if (n - value) < 0
        break;
      end

      n = n - value
      total = total + 1
    end
  }

  total
end
```

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7 kyu

[Find Duplicates](#)

Ruby:

```
def duplicates(a)
  retorno = []

  a.each{ |e|
    if e.count(e) > 1 and retorno.count(e) == 0
      retorno.push(e)
    end
  }

  retorno
end
```

- 4 years ago
- [Refactor](#)
- [Discuss](#)

8 kyu

[Find the Difference in Age between Oldest and Youngest Family Members](#)

Ruby:

```
def difference_in_ages(ages)
  minor = 1000000000000
  major = 0

  ages.each { |age|
    if (age > major)
      major = age
    end

    if (age < minor)
      minor = age
    end
  }

  [minor, major, major - minor]
end
```

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PHP:

```
function differenceInAges($ages) {
  $minor = 1000000000000;
  $major = 0;

  foreach ($ages as $age) {
    if ($age > $major) {
      $major = $age;
    }

    if ($age < $minor) {
      $minor = $age;
    }
  }

  return [$minor, $major, $major - $minor];
}
```

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JavaScript:

```
function differenceInAges($ages) {
  $minor = 1000000000000;
  $major = 0;

  for (var i in $ages) {
    if ($ages[i] > $major) {
      $major = $ages[i];
    }

    if ($ages[i] < $minor) {
      $minor = $ages[i];
    }
  }

  return [$minor, $major, $major - $minor];
}
```

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8 kyu

[Merge two sorted arrays into one](#)

JavaScript:

```
function mergeArrays(arr1, arr2) {
  return [... new Set(arr1.concat(arr2).sort((a,b) => a-b))];

}

• 4 years ago
• Refactor

function mergeArrays(arr1, arr2) {
  return Array.from(new Set(arr1.concat(arr2).sort((a, b) => a- b)));
}

• 7 years ago
• Refactor
• Discuss

function mergeArrays(arr1, arr2) {
  return Array.from(new Set(arr1.concat(arr2).sort((a, b) => a - b)));
}

• 7 years ago
```

- [Refactor](#)

8 kyu

[Removing Elements](#)

Ruby:

```
def remove_every_other(arr)
  return Array.new if arr.empty?
  counter = 0
  ret = []
  arr.each { |i|
    counter = counter + 1
    if (counter % 2 == 1)
      ret.push(i)
    end
  }
  ret
end
```

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- [Discuss](#)

JavaScript:

```
function removeEveryOther(arr){
  let ret = [];
  for (var i in arr) {
    if (i % 2 == 0) {
      ret.push(arr[i]);
    }
  }
  return ret;
}
```

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8 kyu

[You Can't Code Under Pressure #1](#)

Ruby:

```
def double_integer(i)
  i * 2
end
```

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C:

```
#include <stdint.h>

int32_t double_integer(int32_t i){
  return i*2;
}
```

- 4 years ago
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```
#include <stdint.h>

int32_t double_integer(i) {
  return i * 2;
}
```

- 4 years ago
- [Refactor](#)

```
#include <stdint.h>

int double_integer(i){
  return i*2;
}
```

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CoffeeScript:

```
doubleInteger = (i) ->
  # Double the integer, and return it!
  return i*2
```

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- [Discuss](#)

```
doubleInteger = (i) ->
    return i *2
```

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- [Discuss](#)

Python:

```
def double_integer(i):
    return i * 2
```

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- [Discuss](#)

PHP:

```
function doubleInteger($i)
{
    return $i*2;
}
```

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- [Discuss](#)

```
function doubleInteger($i)
{
    return $i*2;
}
```

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Java:

```
class Java {
    public static int doubleInteger(int i) {
        // Double the integer and return it!
        return i*2;
    }
}
```

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```
class Java {
    public static int doubleInteger(int i) {
        // Double the integer and return it!
        return i * 2;
    }
}
```

- 4 years ago
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C++:

```
#include <cstdint>

int32_t double_integer(int32_t n)
{
    return n*2;
}
```

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- [Discuss](#)

C#:

```
using System;

public static class Kata
{
    public static int DoubleInteger(int n)
    {
        return n*2;
    }
}
```

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Elixir:

```
defmodule SimpleMath do
    def double_integer(x) do
        x * 2
    end
}
```

```
end
end
```

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8 kyu

[Do I get a bonus?](#)**Ruby:**

```
def bonus_time(salary, bonus)
  if bonus then
    return "$" + (salary * 10).to_s
  end

  return "$" + salary.to_s
end
```

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**PHP:**

```
function bonusTime($salary, $bonus) {
  return $bonus ? "$" . ($salary * 10) : "$" . $salary;
}
```

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```
function bonusTime($salary, $bonus) {
  if ($bonus) {
    return "$" . ($salary * 10);
  }
  return "$" . $salary;
}
```

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**JavaScript:**

```
function bonusTime(salary, bonus) {
  if (bonus) {
    return "£" + (salary * 10)
  }

  return "£" + salary
}
```

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**C#:**

```
public static class Kata
{
  public static string bonus_time(int salary, bool bonus)
  {
    if (bonus) {
      return "$" + (salary * 10);
    }
    return "$" + salary;
  }
}
```

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7 kyu

[Simple beads count](#)**Ruby:**

```
def count_red_beads n
  t = n * 2 - 2
  return 0 if t < 2
  t
end
```

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**PHP:**

```
function count_red_beads(int $n): int {
    return $n <= 0 ? 0 : ($n-1) * 2;
}
```

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```
function count_red_beads(int $n): int {
    if ($n == 0) return 0;
    return ($n-1) * 2;
}
```

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```
function count_red_beads(int $n): int {
    $t = ($n * 2) - 2;

    if ($n < 2) {
        return 0;
    }

    return $t;
}
```

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8 kyu

[Is it even?](#)

Ruby:

```
def test_even(n)
    n = n.round
    n.to_i.even?
end
```

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6 kyu

[Counting Duplicates](#)

Ruby:

```
def duplicate_count(text)
    text.downcase!
    duplicados = []
    proxima_posicao = 1
    text.split("").each do |i|
        if (duplicados.include? i) == false and (text.slice(proxima_posicao, text.length)).include? i
            duplicados.push(i)
        end
        proxima_posicao = proxima_posicao + 1
    end
    duplicados.count
end
```

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Retired

[Format a string of names like 'Bart, Lisa & Maggie'.](#)

Ruby:

```
def list names
    names = names.map{|hash_name| hash_name[:name] + ", "}
    names = names[0..names.length - 3]
    total_virgulas = names.scan(/,/).length
    if total_virgulas >= 1 then
        posicao_ultima_virgula = names.rindex(",")
        names[posicao_ultima_virgula] = " &"
    end
    names
end
```

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JavaScript:

```
function list(names){
    if (names.length == 0) {
        return '';
    }

    let names_string = "";
    for (var obj of names) {
        names_string += obj.name + ", ";
    }
}
```

```

    }

    total_virgulas = names_string.match(/,/g).length;
    names_string = names_string.substr(0, names_string.length - 2);

    if (total_virgulas > 1) {
        posicao_ultima_virgula = names_string.lastIndexOf(",");
        names_string = names_string.substr(0,posicao_ultima_virgula) + " &" + names_string.substr(posicao_ultima_virgula + 1,names_string.length)
    }

    return names_string;
}

```

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8 kyu

[Grasshopper - Array Mean](#)

Ruby:

```

def find_average(nums)
  return 0 if nums.empty?

  sum = 0.0
  cont = 0.0
  nums.each { |num|
    sum = sum + num
    cont = cont + 1
  }
  (sum / cont).to_f
end

```

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8 kyu

[Take the Derivative](#)

Ruby:

```

def derive(coefficient, exponent)
  val = coefficient * exponent
  exponent = exponent - 1
  val.to_s + "x^" + exponent.to_s
end

```

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JavaScript:

```

function derive(coefficient,exponent) {
  let val = coefficient * exponent;
  exponent = exponent - 1;
  return val + "x^" + exponent;
}

```

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8 kyu

[Get Planet Name By ID](#)

JavaScript:

```

function getPlanetName(id){
  var name;
  switch(id){
    case 1:
      name = 'Mercury';
      break;
    case 2:
      name = 'Venus';
      break;
    case 3:
      name = 'Earth';
      break;
    case 4:
      name = 'Mars';
      break;
    case 5:
      name = 'Jupiter';
      break;
    case 6:
      name = 'Saturn';
      break;
    case 7:
      name = 'Uranus';
      break;
    case 8:
      name = 'Neptune';
      break;
  }
}

```

```
    return name;
}
```

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**Ruby:**

```
def get_planet_name(id)
  # This doesn't work; Fix it!
  name = ''
  case id
  when 1
    name = "Mercury"
  when 2
    name = "Venus"
  when 3
    name = "Earth"
  when 4
    name = "Mars"
  when 5
    name = "Jupiter"
  when 6
    name = "Saturn"
  when 7
    name = "Uranus"
  when 8
    name = "Neptune"
  end

  return name
end
```

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7 kyu

[Remove duplicate words](#)

**PHP:**

```
function removeDuplicateWords($s) {
  $words = explode(' ', $s);

  $return = [];
  foreach ($words as $word) {
    if (! in_array($word, $return)) {
      $return[] = $word;
    }
  }

  return implode($return, ' ');
}
```

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[Is the string uppercase?](#)

**PHP:**

```
function is_uppercase($str) {
  return $str === strtoupper($str);
}
```

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Retired

[N-th Power](#)

**JavaScript:**

```
function index(array, n){
  if (array[n] == undefined) {
    return -1;
  }
  return Math.pow(array[n], n);
}
```

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[No zeros for heros](#)

**Ruby:**

```
def no_boring_zeros(num)
  num = num.to_s
  num = num.gsub(/0+$/) { ''}
  num = num.to_i
  num
end
```

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[Array\\_plus array](#)

Ruby:

```
def array_plus_array(arr1, arr2)
  arr1.sum + arr2.sum
end
```

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JavaScript:

```
function arrayPlusArray(arr1, arr2) {
  sum = 0
  for (let arr of arr1) {
    sum = sum + arr
  }
  for (let arr of arr2) {
    sum = sum + arr
  }
  return sum
}
```

- 4 years ago
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C:

```
#include <stddef.h>

long arr_plus_arr(const int *a, const int *b, size_t na, size_t nb)
{
    long sum = 0;
    long i=0;
    for (i=0;i<na;i++ ) {
        sum = sum + a[i];
    }
    for (i=0;i<nb;i++) {
        sum = sum + b[i];
    }
    return sum;
}
```

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[Beginner Series #1 School Paperwork](#)

JavaScript:

```
function paperwork(n, m) {
  if (n <= 0 || m <= 0) {
    return 0;
  }
  return n * m;
}
```

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Ruby:

```
def paperwork(n, m)
  if n <= 0 || m <= 0 then
    return 0
  end
  n * m
end
```

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Retired

[Squash the bugs](#)

**Ruby:**

```
def find_longest(string)
  spl = string.split(" ")
  longest = 0
  i=0

  while (i < spl.size) do
    tamanho = spl[i].size
    if (tamanho > longest) then
      longest = tamanho
    end
    i = i + 1
  end

  return longest
end
```

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[Will you make it?](#)**Ruby:**

```
def zero_fuel(distance, mpg, fuel_left)
  mpg * fuel_left >= distance
end
```

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**Java:**

```
public class Kata {

  public static boolean zeroFuel(double distanceToPump, double mpg, double fuelLeft) {
    return mpg * fuelLeft >= distanceToPump;
  }
}
```

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**C:**

```
#include <stdbool.h>

bool zero_fuel(double distance_to_pump, double mpg, double fuel_left)
{
  return mpg * fuel_left >= distance_to_pump;
}
```

- 4 years ago
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```
#include <stdbool.h>

bool zero_fuel(double distance_to_pump, double mpg, double fuel_left)
{
  return mpg * fuel_left >= distance_to_pump;
}
```

- 4 years ago
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**C#:**

```
using System;

public static class Kata
{
  public static bool ZeroFuel(uint distanceToPump, uint mpg, uint fuelLeft)
  {
    return mpg * fuelLeft >= distanceToPump;
  }
}
```

- 4 years ago
- [Refactor](#)

**JavaScript:**

```
const zeroFuel = (distanceToPump, mpg, fuelLeft) => {
  return mpg * fuelLeft >= distanceToPump;
};
```

- 4 years ago
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8 kyu

[Well of Ideas - Easy Version](#)

Ruby:

```
def well (x)
  contador = 0
  x.each { |xx|
    if xx == "good" then
      contador = contador + 1
    end
  }
  if (contador > 0 && contador <= 2)
    return "Publish!"
  elsif (contador >= 2)
    return "I smell a series!"
  else
    return "Fail!"
  end
end
```

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[A + B](#)

Java:

```
public class FirstClass {
  public static long sum (byte a, byte b) {
    long c = a + b;
    return c;
}
```

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C#:

```
public class FirstClass
{
  public static long sum (byte a, byte b)
  {
    long c = a + b;
    return c;
}
```

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[The Wide-Mouthed frog!](#)

Ruby:

```
def mouth_size(animal)
  animal.downcase!
  animal == "alligator" ? "small" : "wide"
end
```

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8 kyu

[What is between?](#)

JavaScript:

```
function between(a, b) {
  retorno = []
  while (a <= b) {
    retorno.push(a)
    a++
  }
  return retorno
}
```

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8 kyu

[Generate range of integers](#)

JavaScript:

```
function generateRange(min, max, step){
    retorno = []
    atual = min

    while (atual <= max) {
        retorno.push(atual)
        atual = atual + step
    }

    return retorno;
}
```

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[Find Multiples of a Number](#)

Python:

```
def find_multiples(integer, limit):
    retorno = []
    inicio = integer
    while (integer <= limit):
        if (integer / inicio == integer // inicio):
            retorno.append(integer)
        integer=integer+1
    return retorno
```

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Ruby:

```
def find_multiples(integer, limit)
    a = integer
    r= []
    while a <= limit
        r.push a
        a = a + integer
    end
    return r
end
```

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[Beginner - Reduce but Grow](#)

PHP:

```
function grow($a) {
    $resultado = 1;

    foreach ($a as $item) {
        $resultado = $resultado * $item;
    }

    return $resultado;
}
```

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8 kyu

[Is this my tail?](#)

JavaScript:

```
function correctTail(body, tail) {
    sub = body.substr(body.length-1, 1);

    if (sub == tail) {
        return true
    }
    else {
        return false;
    }
}
```

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PHP:

```
function equivalent($body, $char) {
    $newChar = substr($body, -1, 1);

    if ($char == $newChar) {
        return true;
    } else {
        return false;
    }
}
```

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```
function equivalent($body, $char) {
    return $char === substr($body, -1, 1);
}
```

- 5 years ago
- [Refactor](#)
- [Discuss](#)

7 kyu

[Isograms](#)**PHP:**

```
function isIsogram($string) {
    for ($i=0; $i<strlen($string) ; $i++) {
        $existentes[] = $string[$i];

        for ($j = strlen($string) ; $j > $i ; $j--) {
            if (strtolower($string[$i]) == strtolower($string[$j])) {
                return false;
            }
        }
    }

    return true;
}
```

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8 kyu

[Total amount of points](#)**PHP:**

```
function points(array $games): int {
    $total = 0;
    for ($i = 0; $i < count($games); $i++) {
        $ponto1 = substr($games[$i], 0, 1);
        $ponto2 = substr($games[$i], 2, 1);
        //unset($games[count($games) - 1]);

        if ($ponto1 > $ponto2) {
            $total +=3;
        } elseif ($ponto1 == $ponto2) {
            $total +=1;
        }
    }

    print($total);
    return $total;
}
```

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8 kyu

[Bin to Decimal](#)**PHP:**

```
function binToDec($bin) {
    return bindec($bin);
}
```

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- [Discuss](#)

8 kyu

[Grasshopper - Messi goals function](#)**C++:**

```
int goals (int laLigaGoals, int copaDelReyGoals, int championsLeagueGoals) {
    return laLigaGoals + copaDelReyGoals + championsLeagueGoals;
}
```

- 5 years ago
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Ruby:

```
def goals (laLigaGoals, copaDelReyGoals, championsLeagueGoals)
  laLigaGoals + copaDelReyGoals + championsLeagueGoals
end
```

- 5 years ago
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CoffeeScript:

```
goals = (laLigaGoals, copaDelReyGoals, championsLeagueGoals) -> laLigaGoals + copaDelReyGoals + championsLeagueGoals
```

- 5 years ago
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- [Discuss](#)

8 kyu

[Grasshopper - Messi goals function](#)

JavaScript:

```
function goals (laLigaGoals, copaDelReyGoals, championsLeagueGoals) {
  return laLigaGoals + copaDelReyGoals + championsLeagueGoals;
}
```

- 5 years ago
- [Refactor](#)

PHP:

```
function goals (int $laLigaGoals, int $copaDelReyGoals, int $championsLeagueGoals) : int {
  return $laLigaGoals + $copaDelReyGoals + $championsLeagueGoals;
}
```

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Go:

```
package kata

func Goals(laLigaGoals, copaDelReyGoals, championsLeagueGoals int) int {
  return laLigaGoals + copaDelReyGoals + championsLeagueGoals
}
```

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TypeScript:

```
export function goals (laLigaGoals:number, copaDelReyGoals:number, championsLeagueGoals:number) {
  return laLigaGoals + copaDelReyGoals + championsLeagueGoals
}
```

- 5 years ago
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C++:

```
int goals (int laLigaGoals, int copaDelReyGoals, int championsLeagueGoals) {
  return laLigaGoals + copaDelReyGoals + championsLeagueGoals;
}
```

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8 kyu

[L1: Set Alarm](#)

Ruby:

```
def set_alarm(employed, vacation)
  if !employed == true && vacation == false
    return true;
  end

  false;
end
```

- 5 years ago
- [Refactor](#)

8 kyu

[Count the Monkeys!](#)**PHP:**

```
function monkeyCount($n) {
    $r = [];
    for ($a = 1; $a <= $n; $a++) {
        $r[] = $a;
    }
    return $r;
}
```

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7 kyu

[How many arguments?](#)**PHP:**

```
function args_count() {
    return count(func_get_args());
}
```

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- [Discuss](#)

8 kyu

[Convert a Number to a String!](#)**JavaScript:**

```
function numberToString(num) {
    return String(num).valueOf();
}
```

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**PHP:**

```
function numberToString($num)
{
    return (string) $num;
}
```

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**Ruby:**

```
def numberToString(num)
    num.to_s
end
```

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[Opposite number](#)**JavaScript:**

```
function opposite(number) {
    return number * -1
}
```

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```
function opposite(number) {
    return number < 0 ? Math.abs(number): -Math.abs(number);
}
```

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```
function opposite(number) {
    return number * (-1);
}
```

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## Python:

```
def opposite(number):
    return number * -1
```

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```
def opposite(number):
    return number * -1
```

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```
def opposite(number):
    return number*-1
```

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## C:

```
float opposite(float num) {
    return num * -1;
}
```

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```
float opposite(float num) {
    return num * -1;
}
```

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## C++:

```
int opposite(int number)
{
    return number * -1;
}
```

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## OCaml:

```
let opposite (number : int) : int =
    number * -1
```

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## Go:

```
package kata

func Opposite(value int) int {
    return value * -1
}
```

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```
package kata

func Opposite(value int) int {
    return value * -1
}
```

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## C#:

```
using System;

public class Kata
{
    public static int Opposite(int number)
    {
        return number * -1;
    }
}
```

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```
using System;

public class Kata
{
    public static int Opposite(int number)
    {
        return number * -1;
    }
}
```

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Groovy:

```
class Solution {
    static opposite(number) {
        return number * -1;
}
```

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Java:

```
public class Kata
{
    public static int opposite(int number)
    {
        return -1 * number;
    }
}
```

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```
public class Kata
{
    public static int opposite(int number)
    {
        return number * -1;
    }
}
```

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Elixir:

```
defmodule Opposite do
  def opposite(number) do
    number * -1
  end
end
```

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Crystal:

```
def opposite(n)
  return n * -1
end
```

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```
def opposite(n)
  n * -1
end
```

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Julia:

```
module Solution
  export opposite
  function opposite(number)
    return number * -1
  end
end
```

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Kotlin:

```
fun opposite(number: Int): Int {
    return number * -1
}
```

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**Lua:**

```
local kata = {}

function kata.opposite(number)
    return number * -1
end

return kata
```

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**Nim:**

```
proc opposite*(number: int) : int =
    return number * -1

proc opposite*(number: int) : int =
    return number * -1

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```

**Rust:**

```
fn opposite(number: i32) -> i32 {
    return number * -1
}
```

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**Swift:**

```
func opposite(number: Double) -> Double {
    return number * -1
}
```

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```
func opposite(number: Double) -> Double {
    return number * -1
}
```

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**TypeScript:**

```
export class Kata {
    static opposite(n: number) {
        return n * -1;
    }
}
```

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**PHP:**

```
function opposite($n) {
    return $n * -1;
}
```

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**Ruby:**

```
def opposite n
    n * -1
end
```

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[Difference between biggest 2 numbers](#)

Ruby:

```
def diff_big_2(arr)
  b1 = -10000
  b2 = -10000

  arr.each do |n|
    maiorTodos = false

    if n > b1 then
      b2 = b1
      b1 = n
      maiorTodos = true
    end

    if n > b2 and maiorTodos == false then
      b2 = n
    end
  end

  return b1 - b2
end
```

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[Exclamation marks series #4: Remove all exclamation marks from sentence but ensure a exclamation mark at the end of string](#)

PHP:

```
function remove(string $s): string {
  $s = str_replace("!", "", $s);
  $s = $s . "!";
  return $s;
}
```

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```
function remove(string $s): string {
  $s = str_replace('!', '', $s);
  return $s . "!";
}
```

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```
function remove(string $s): string {
  $s = str_replace("!", "", $s);
  return $s . "!";
}
```

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```
function remove(string $s): string {
  $r = str_replace("!", "", $s);
  return $r . "!";
}
```

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```
function remove(string $s): string {
  return str_replace("!", "", $s) . "!";
}
```

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JavaScript:

```
function remove(s){
  let r = s.replace(/!-/g, "");
  return r + "!";
}
```

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[Abbreviate a Two Word Name](#)

Java:

```
public class AbbreviateTwoWords {
    public static String abbrevName(String name) {
        String nome = name.substring(0,1);
        int indiceEspaco = Math.abs(name.indexOf(" "));
        String sobrenome = name.substring(indiceEspaco + 1, indiceEspaco + 2);
        return nome.toUpperCase() + "." + sobrenome.toUpperCase();
    }
}
```

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[Number of Divisions](#)

JavaScript:

```
const divisions = (n, divisor) => {
    let cont = 0;

    console.log(n);
    while (n > 1) {
        n = n / divisor;
        cont++;
    }

    return cont - 1;
};
```

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```
const divisions = (current_number, divisor) => {
    let total = 0;

    while (divisor <= current_number) {
        total++;
        current_number = Math.floor(current_number / divisor);
    }

    return total;
};
```

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TypeScript:

```
export function divisions(n, divisor) {
    let cont = 0;

    while (n > 1) {
        n = n / divisor;
        cont++;
    }

    return cont - 1;
};
```

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[Remove anchor from URL](#)

JavaScript:

```
function removeUrlAnchor(url){
    url_dividida = url.split("#");
    return url_dividida[0];
}
```

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```
function removeUrlAnchor(url){
    const posicaoSustenido = url.indexOf("#");

    if (posicaoSustenido > -1) {
        return url.substr(0, posicaoSustenido);
    }

    return url;
}
```

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**PHP:**

```
function replaceAll($string) {
    if (strpos($string, "#") == false) {
        return $string;
    }
    return substr($string, 0, strpos($string, "#"));
}
```

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```
function replaceAll($string) {
    $posicaoAgora = strpos($string, "#");

    if ($posicaoAgora == false) {
        return $string;
    }

    return substr($string, 0, $posicaoAgora);
}
```

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[If you can't sleep.. just count sheep!!](#)**JavaScript:**

```
var countSheep = function (num){
    let retorno = '';
    let n=1;

    while(n <= num) {
        retorno = retorno + n + " sheep...";
        n++;
    }
    return retorno;
}
```

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[Sum Mixed Array](#)**PHP:**

```
function sum_mix($a) {
    $retorno = 0;
    foreach ($a as $i) {
        $t = gettype($i);
        if ($t == "integer" || $t == "string") {
            $retorno += $i;
        }
    }
    return $retorno;
}
```

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[Reversed Words](#)**JavaScript:**

```
function reverseWords(str){
    let array_retorno = []
    for (let word of str.split(" ")) {
        array_retorno.unshift(word);
    }
    return array_retorno.join(" ");
}
```

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[String repeat](#)**JavaScript:**

```
function repeatStr (n, s) {
    r = "";
    for (i=0; i < n ; i++) {
        r = r + s;
```

```

    }
    return r;
}

```

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```

function repeatStr (n, s) {
    return s.repeat(n);
}

```

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**PHP:**

```

function repeatStr($n, $str)
{
    return str_repeat($str, $n);
}

```

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[Convert boolean values to strings 'Yes' or 'No'.](#)

**Java:**

```

class YesOrNo
{
    public static String boolToWord(boolean b)
    {
        return b ? "Yes" : "No";
    }
}

```

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**JavaScript:**

```

function boolToWord( bool ){
    return bool ? "Yes" : "No";
}

```

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**Ruby:**

```

def bool_to_word(bool)
  if bool then
    return "Yes"
  end
  return "No"
end

```

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```

def bool_to_word bool
  bool ? "Yes" : "No"
end

```

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**PHP:**

```

function boolToWord($bool){
    return $bool ? "Yes" : "No";
}

```

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```

function boolToWord($bool){
    if ($bool == "Yes") {
        return "Yes";
    }
    else {
        return "No";
    }
}

```

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C#:

```
using System;
using System.Linq;

public static class Kata
{
    public static string boolToWord(bool word)
    {
        if (word == true)
            return "Yes";
        return "No";
    }
}
```

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```
using System;
using System.Linq;

public static class Kata
{
    public static string boolToWord(bool word)
    {
        if (word == true) {
            return "Yes";
        }
        return "No";
    }
}
```

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```
using System;
using System.Linq;

public static class Kata
{
    public static string boolToWord(bool word)
    {
        if (word == true) {
            return "Yes";
        }
        return "No";
    }
}
```

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[DNA to RNA Conversion](#)

Ruby:

```
def DNAtoRNA(dna)
  dna.gsub('T', 'U')
end
```

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```
def DNAtoRNA(dna)
  r = dna.gsub('T', 'U')
  dna
end
```

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JavaScript:

```
function DNAtoRNA(dna) {
  dna = dna.replace(/T/gi, "U");
  return dna;
}
```

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[Do you speak "English"?](#)

JavaScript:

```
function spEng(sentence){
  sentence = sentence.toLowerCase(sentence);
  if (sentence.match(/english/)) {
```

```

        return true;
    } else {
        return false;
    }
}

```

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[You only need one - Beginner](#)

JavaScript:

```

function check(a,x){
    for (let i of a) {
        if (i == x) return true;
    }
    return false;
};

```

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Python:

```

def check(seq, elem):
    for i in seq:
        if i == elem:
            return True;
    return False

```

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PHP:

```

function solution($a, $x) {
    foreach ($a as $i) {
        if ($i === $x) {
            return true;
        }
    }
    return false;
}

```

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```

function solution($a, $x) {
    return in_array($x, $a);
}

```

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PHP:

```

function solution($a, $x) {
    foreach ($a as $i) {
        if ($i === $x) {
            return true;
        }
    }
    return false;
}

```

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Ruby:

```

def check(arr,element)
    arr.include? element
end

```

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Retired

[Can we divide it?](#)

JavaScript:

```

function isDivideBy(number, a, b) {
    if (number % a == 0) {

```

```

if (number % b == 0) {
    return true;
}
return false;
}

```

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**Python:**

```

def is_divide_by(number, a, b):
    if number % a == 0 and number % b == 0:
        return True;
    return False;
}

```

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**Ruby:**

```

def is_divide_by(number, a, b)
    number % a == 0 and number % b == 0
end

```

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[Lua is easy: Lesson 1 - The basics](#)

**Lua:**

```

kata = {}
function kata.firstLua(a,b,c)
    if (b >= c) then
        return a .. " " .. a*b .. " Lua"
    end
    return a .. " " .. a*b .. " Codewars"
end

```

return kata

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[Convert string to camel case](#)

**Ruby:**

```

def to_camel_case(str)
    original = str.clone
    str = str.split("_").map do |i|
        i[0].upcase + i[1, i.length]
    end.join

    str = str.split("-").map do |i|
        i[0].upcase + i[1, i.length]
    end.join

    str = str[0].downcase + str[1, str.length] if original.match(/^[a-z]/) && str != ""
    str
end

```

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**JavaScript:**

```

function toCamelCase(str){
    if (str.trim() == "") return "";
    let partes_string = str.split(/[_]/);
    let resposta = "";
    for (let parte of partes_string) {
        resposta += parte[0].toUpperCase() + parte.substr(1);
    }

    if (str[0].toLowerCase() == str[0]) {
        resposta = resposta[0].toLowerCase() + resposta.substr(1);
    }

    return resposta;
}

```

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[Count Odd Numbers below n](#)

JavaScript:

```
function oddCount(n){
    return Math.ceil((n-1)/2);
}
```

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8 kyu

[Sum The Strings](#)

JavaScript:

```
function sumStr(a,b) {
    return String(Number(a) + Number(b))
}
```

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```
function sumStr(a,b) {
    if (a.trim() == "") a = "0";
    if (b.trim() == "") b = "0";
    return String(parseInt(a) + parseInt(b));
}
```

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[get character from ASCII Value](#)

Ruby:

```
def getChar(c)
    c.chr
end
```

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JavaScript:

```
function getChar(c){
    let a = String.fromCharCode(c);
    return a;
}
```

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[Beginner - Lost Without a Map](#)

JavaScript:

```
function maps(x){
    let retorno = [];
    for (var i in x) {
        retorno[i] = x[i]*2;
    }
    return retorno;
}
```

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[Remove duplication](#)

JavaScript:

```
function removeDuplication(arr){
    arr = arr.sort();
    let retorno = [];
    let anterior = null;
```

```

let posicaoExistente = null;
for (let i of arr) {
  posicaoExistente = arr.indexOf(i);
  if (i !== anterior && i !== undefined) {
    retorno.push(i);
  } else {
    posicaoExistente = retorno.indexOf(i);
    if (posicaoExistente > -1) {
      retorno.splice(posicaoExistente, 1);
    }
  }
  anterior = i;
}
return retorno;
}

```

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[Sum of integers in string](#)

JavaScript:

```

function sumOfIntegersInString(s){
  let arrayNumeros = s.split(/\d+/);
  let total = 0;
  return arrayNumeros.reduce(function (total, atual) {
    atual = parseInt(atual);
    if (!isNaN(atual)) {
      return total + parseInt(total) + atual;
    }
    return total;
  }, 0);
}

```

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[Potenciacion](#)

JavaScript:

```

function power(x,y){
  return x**y
}

function power(x,y){
  //SHOW ME WHAT YOU GOT!
  return x ** y
}

function power(x,y){
  if (x == 1 || y == 0) return 1;

  let cont = 1;
  let retorno=x*x;

  while (cont < y - 1) {
    retorno = retorno * x;
    cont++;
  }

  return retorno;
}

```

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[Correct the time-string](#)

Ruby:

```

def validar_formato(partes_tempo)
  i = 0
  return false unless partes_tempo.length == 3
  while(i < 3) do
    return false if partes_tempo[i].to_s.length != 2 or partes_tempo[i].match(/\d{2}/) == nil
    i = i+1
  end
  true
end

def time_correct(t)
  return t if t.nil? or t==""
  partes_tempo = t.split(":")

```

```

return nil unless validar_formato(partes_tempo)
segundos = partes_tempo[2].to_i % 60
acrescimo_minutos = partes_tempo[2].to_i / 60
minutos = (partes_tempo[1].to_i % 60) + acrescimo_minutos
acrescimo_horas = partes_tempo[1].to_i / 60
horas = (partes_tempo[0].to_i % 24) + acrescimo_horas

horas.to_s.rjust(2, '0') + ":" + minutos.to_s.rjust(2, '0') + ":" + segundos.to_s.rjust(2, '0')
end

```

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[Is it a vowel on this position?](#)

JavaScript:

```

function checkVowel(string, position) {
  str = string.slice(position, 1).toLowerCase();
  console.log(str);
  return str == "a" || str == "e" || str == "i" || str == "o" || str == "u";
}

```

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[Reversed sequence](#)

JavaScript:

```

const reverseSeq = n => {
  let retorno = []
  while (n >= 1) {
    retorno.push(n);
    n--;
  }
  return retorno;
};

```

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PHP:

```

function reverseSeq ($n) {
  $retorno = [];
  while ($n >= 1) {
    $retorno[] = $n;
    $n--;
  }
  return $retorno;
}

```

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Python:

```

def reverse_seq(n):
  retorno = []
  while n > 0:
    retorno.append(n)
    n = n - 1
  return retorno

```

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```

def reverse_seq(n):
  a = n;
  r = [];
  r.append(n);
  i = n;

  while i > 1:
    i = a - 1;
    a = a - 1;
    r.append(i);
  return r;

```

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[Parse nice int from char problem](#)

JavaScript:

```
function getAge(inputString){
    return parseInt(inputString.slice(0,1));
}
```

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[Does my number look big in this?](#)

Ruby:

```
def narcissistic?( value )
    expoente = value.to_s.length
    total = 0
    value.to_s.split("").each do |c|
        total = total + (c.to_i) ** expoente
    end
    total == value
end
```

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JavaScript:

```
function narcissistic( value ) {
    let valorString = String(value);
    let expoente = valorString.length;
    let soma = 0;
    for (i of valorString.split('')) {
        soma += Math.pow(i, expoente);
    }
    return parseInt(soma) == value;
}
```

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[Moving Zeros To The End](#)

JavaScript:

```
var moveZeros = function (arr) {
    let inicioRetorno = [];
    let finalRetorno = []
    for (item of arr) {
        if (item === 0) {
            finalRetorno.push(item);
        } else {
            inicioRetorno.push(item);
        }
    }
    return inicioRetorno.concat(finalRetorno);
}
```

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```
var moveZeros = function (arr) {
    let retorno = [];
    let itensFinal = []
    for (var item of arr) {
        if (item === 0) {
            itensFinal.push(item);
        } else {
            retorno.push(item);
        }
    }

    for (var item of itensFinal) {
        retorno.push(item);
    }

    return retorno;
}
```

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6 kyu

[What century is it?](#)

JavaScript:

```
function whatCentury(year)
{
    let seculo = '';
    if (year % 100 == 0) {
        seculo = String(year).slice(0,2);
```

```

    seculo = seculo + obtenerOrdinalSeculo(seculo);
} else {
    seculo = Number(String(year).slice(0,2)) + 1
    seculo = seculo + obtenerOrdinalSeculo(seculo);
}

return seculo;
}

function obtenerOrdinalSeculo(seculo) {
    seculo = String(seculo);

    if (seculo[1] == '1' && seculo[0] != '1') return 'st';
    if (seculo[1] == '2' && seculo[0] != '1') return 'nd';
    if (seculo[1] == '3' && seculo[0] != '1') return 'rd';
    return 'th';
}

```

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8 kyu

[Jenny's secret message](#)

JavaScript:

```

function greet(name){
    if(name === "Johnny")
        return "Hello, my love!";
    return "Hello, " + name + "!";
}

```

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PHP:

```

function greet($name) {
    if ($name === 'Johnny') {
        return 'Hello, my love!';
    }
    return "Hello, $name!";
}

```

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7 kyu

[Is this a triangle?](#)

JavaScript:

```

function isTriangle(a,b,c)
{
    if (a + b > c && b + c > a && a + c > b) {
        return true;
    }
    return false
}

```

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```

function isTriangle(a,b,c)
{
    if (a + b > c && a + c > b && b + c > a) {
        return true;
    }
    return false;
}

```

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Ruby:

```

def isTriangle(a,b,c)
    return true if (a+b>c and a+c>b and b+c>a)
    false
end

```

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Java:

```

class TriangleTester{
    public static boolean isTriangle(int a, int b, int c){
        if (a + b > c && a + c > b && c + b > a) {
            return true;
        }
    }
}

```

```
    return false;
}
}
```

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7 kyu

[Thinkful - Object Drills: Vectors](#)

JavaScript:

```
class Vector
{
  constructor(x, y)
  {
    this.x = x;
    this.y = y;
  }

  add(a) {
    return new Vector(a.x + this.x, a.y + this.y);
  }
}
```

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7 kyu

[Circle area inside square](#)

JavaScript:

```
function squareAreaToCircle(size){
  return (size/4 * Math.PI);
}
```

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```
function squareAreaToCircle(size){
  return Math.PI * Math.pow(Math.sqrt(size) / 2, 2);
}
```

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5 kyu

[First non-repeating character](#)

Ruby:

```
def first_non_repeating_letter(s)
  return s if s.to_s == ""
  s.split("").each do |caracter|
    return caracter unless s.scan(/#{caracter}/i).length > 1
  end
  return ""
end
```

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JavaScript:

```
function firstNonRepeatingLetter(s) {
  let sMinusculas = s.toLowerCase();
  let arrayLetras = s.split('');
  let letrasMinusculasJaVerificadas = [];

  for (let indiceLetra in arrayLetras) {
    let letraAtual = s[indiceLetra];
    let letraAtualMinuscula = s[indiceLetra].toLowerCase();
    if (sMinusculas.substr(parseInt(indiceLetra) + 1, sMinusculas.length).indexOf(letraAtualMinuscula) == -1 && letrasMinusculasJaVerificadas.indexOf(
      )
```

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6 kyu

[Multiples of 3 or 5](#)

JavaScript:

```
function solution(maximo) {
  let multiplos = [];
  for (var i=1; i<maximo ; i++) {
    if (i%3==0 || i%5==0) {
      multiplos.push(i);
    }
  }
  if (multiplos.length == 0) return 0;
  return multiplos.reduce(function(valorAnterior, valorAtual) {
    return valorAtual + valorAnterior;
  });
}
```

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7 kyu

[Training JS #33: methods of Math--max\(\) min\(\) and abs\(\)](#)

JavaScript:

```
function maxMin(arr1,arr2){
  let comparisons = [];
  for (let i in arr1) {
    comparisons.push(Math.abs(arr1[i] - arr2[i]));
  }
  return [Math.max(...comparisons), Math.min(...comparisons)];
}
```

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7 kyu

[Easy Time Convert](#)

JavaScript:

```
function timeConvert(num) {
  if (num <=0) return "00:00";
  let seconds = Math.floor((num % 3600) % 60);
  let minutes = Math.floor((num / 60));
  return formatWith2Numbers(minutes) + ":" + formatWith2Numbers(seconds);
}

function formatWith2Numbers(num) {
  if (num < 10) return "0" + String(num);
  return String(num);
}
```

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7 kyu

[Alternate capitalization](#)

JavaScript:

```
function capitalize(s){
  let ret1 = [];
  let ret2 = [];
  let i = 0;
  for (let q of s.split("")) {
    if (i % 2 ==1) {
      ret1.push(q.toLowerCase());
      ret2.push(q.toUpperCase());
    } else {
      ret2.push(q.toLowerCase());
      ret1.push(q.toUpperCase());
    }
    i++;
  }
  return [ret1.join(""), ret2.join("")];
};
```

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5 kyu

[Compare Number](#)

JavaScript:

```
function compare(a,b){
  let float_a = parseFloat(a.replace(/^0+/, ""));
```

```

let float_b = parseFloat(b.replace(/\^0+/, ""));
if (float_a > float_b) return "greater";
if (float_a < float_b) return "less";
if (a.length > 10 || b.length > 10) {
  return compararStringDigitoPorDigito(a, b);
}
return "equal";
}

function compararStringDigitoPorDigito(a, b) {
  let da = a.split("");
  let db = b.split("");

  for (let i in da) {
    let a_atual = da[da.length - i - 1];
    let b_atual = db[db.length - i - 1];
    if (a_atual > b_atual) {
      return "greater";
    } else if (a_atual < b_atual) {
      return "less";
    }
  }
  return "equal";
}

```

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```

function compare(a,b){
  let float_a = parseFloat(a.replace(/\^0+/, ""));
  let float_b = parseFloat(b.replace(/\^0+/, ""));

  console.log(a);
  console.log(b);

  console.log(float_a);
  console.log(float_b);

  if (float_a > float_b) return "greater";
  if (float_a < float_b) return "less";

  if (a.length > 10 || b.length > 10) {
    return compararStringDigitoPorDigito(a, b);
  }
  return "equal";
}

function compararStringDigitoPorDigito(a, b) {
  let d = -1;
  let da = a.split("");
  let db = b.split("");

  for (let i in da) {
    let a_atual = da[da.length - i - 1];
    let b_atual = db[db.length - i - 1];
    if (a_atual > b_atual) {
      return "greater";
    } else if (a_atual < b_atual) {
      return "less";
    }
  }
  return "equal";
}

```

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7 kyu

[Word values](#)

JavaScript:

```

function wordValue(a) {
  let t = [];
  let r = [];
  let i = 0;
  for (let w of a) {
    console.log(w);
    r[i] = 0;
    for (let c of w.split("")) {
      let vc = c.charCodeAt(0);
      if (vc < 97 || vc > 122) continue;
      r[i] += vc - 96;
    }
    r[i] = r[i] * (i + 1);
    i++;
  }
  return r;
}

```

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7 kyu

[Array of twins](#)

JavaScript:

```
function twins(myArray){
  let cont = {}

  for (let i of myArray) {
    if (cont[i] === undefined) cont[i] = 0;
    cont[i]++;
  }

  for (let i in cont) {
    if (cont[i] != 2) return false;
  }

  return true;
}
```

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7 kyu

[Count number of zeros from 1 to N](#)

JavaScript:

```
function countZeros(n) {
  let ns;
  let c = 1;
  let total = 0;

  while (c <= n) {
    ns = String(c).split('');

    for (let i of ns) {
      if (i == '0') {
        total++;
      }
    }

    c++;
  }

  return total;
}
```

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7 kyu

[Start with a Vowel](#)

JavaScript:

```
function vowelStart(str){
  str = str.toLowerCase();
  let ret = '';
  for (let c of str) {
    if (c == " " || c == "," || c == "-" || c == "!") continue;
    if (is_vowel(c)) {
      ret += ' ';
    }
    ret += c;
  }

  return ret.trim();
}

function is_vowel(letter) {
  letter = letter.toLowerCase();
  return letter == "a" || letter == "e" || letter == "i" || letter == "o" || letter == "u";
}
```

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```
function vowelStart(str){
  str = str.toLowerCase();
  let ret = '';
  for (let c of str) {
    if (c == " " || c == "," || c == "-" || c == "!") continue;
    if (is_vowel(c)) {
      ret += ' ';
    }
    ret += c;
  }

  return ret.trim();
}

function is_vowel(letter) {
  letter = letter.toLowerCase();
  return letter == "a" || letter == "e" || letter == "i" || letter == "o" || letter == "u";
}
```

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```
function vowelStart(str){
  str = str.toLowerCase();
  let ret = '';
  for (let c of str) {
    if (c == " " || c == "," || c == "-" || c == "!") continue;
    if (is_vowel(c) /*&& ret[ret.length - 1] != "*"*/) {
      ret += ' ';
    }
    ret += c;
  }
  return ret.trim();
}

function is_vowel(letter) {
  letter = letter.toLowerCase();
  return letter == "a" || letter == "e" || letter == "i" || letter == "o" || letter == "u";
}
```

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7 kyu

[Order of weight](#)

JavaScript:

```
function arrange(arr){
  let pesos = [];
  for (let peso of arr) {
    if (peso.indexOf('KG') > -1) {
      pesos.push(parseInt(peso) * 1000);
    } else if (peso.indexOf('T') > -1) {
      pesos.push(parseInt(peso) * 1000 * 1000);
    } else {
      pesos.push(parseInt(peso));
    }
  }
  pesos.sort((a, b) => a - b);
  return re colocarUnidades(pesos);
}

function re colocarUnidades(pesos) {
  let retorno = [];
  for (let peso of pesos) {
    if (peso / (1000 * 1000) >= 1) {
      peso = (peso / (1000*1000)) + "T";
    } else if (peso / 1000 >= 1) {
      peso = (peso / 1000) + "KG";
    } else {
      peso = peso + "G";
    }
    retorno.push(peso);
  }
  return retorno;
}
```

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7 kyu

[Ch4113ng3](#)

JavaScript:

```
function nerdify(txt){
  return txt.replace(/([aA])/g, "4").replace(/([eE])/g, "3").replace(/([iI])/g, "1");
}
```

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Retired

[Use reduce\(\) to calculate the sum of the values in an array.](#)

JavaScript:

```
function sum(array) {
  return array.reduce((sum, value) => sum + value);
}
```

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7 kyu

[Longest vowel chain](#)

JavaScript:

```
function solve(s){
  let maior = 0;
  for (let vogais of s.split(/[b-df-hj-np-tv-z]+/)) {
    let tamanhoAtual = parseInt(vogais.length);
    if (tamanhoAtual > maior) maior = tamanhoAtual;
  }
  return maior;
}
```

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8 kyu

[To square\(root\) or not to square\(root\).](#)

JavaScript:

```
function squareOrSquareRoot(array) {
  let retorno = [];
  for (let n of array){
    let resultado = Math.sqrt(n);
    if (resultado % 1 == 0) {
      retorno.push(resultado);
    } else {
      retorno.push (n * n);
    }
  }
  return retorno;
}
```

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```
function squareOrSquareRoot(array) {
  array.forEach(function(valor, indice, arrayOriginal) {
    const raiz = Math.sqrt(valor);
    if (raiz % 1 == 0) {
      return arrayOriginal[indice] = raiz;
    }
    return arrayOriginal[indice] = Math.pow(valor, 2);
  });
}

return array;

//return array.map(Math.sqrt);
}
```

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6 kyu

[Find the missing term in an Arithmetic Progression](#)

JavaScript:

```
var findMissing = function (list) {
  let diferenca = list[1] - list[0];
  let diferenca_atual = 0;
  for (let i in list) {
    if (i == 0) continue;
    i_anterior = i - 1;
    diferenca_atual = list[i] - list[i - 1];

    if (diferenca_atual != diferenca) {
      return list[i] - diferenca;
    }
  }
}
```

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7 kyu

[Numbers in strings](#)

JavaScript:

```
function solve(s){
  let strs = s.split(/[a-zA-Z]+/);
  for (var i in strs) {
    strs[i] = parseInt(strs[i]);
    if (isNaN(strs[i])) strs[i] = 0;
  }
  strs.sort(function (a, b) { return a - b; });
  return strs[strs.length - 1];
};


```

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6 kyu

[Organise duplicate numbers in list](#)

JavaScript:

```
function group(arr) {
  let retorno = [];
  let posicoes_itens = [];
  let posicao = null;

  for (let i of arr) {
    posicao = posicoes_itens.indexOf(i);
    if (posicao == -1) {
      posicoes_itens.push(i);
      posicao = posicoes_itens.indexOf(i);
    }

    if (! (retorno[posicao] instanceof Array)) {
      retorno[posicao] = [];
    }
    retorno[posicao].push(i);
  }

  return retorno;
}
```

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```
function group(arr) {
  let indiceElementos = [];
  let retorno = [];
  let posicaoArray = null
  for (item of arr) {
    posicaoArray = indiceElementos.indexOf(item);
    if (posicaoArray == -1) {
      indiceElementos.push(item);
      retorno.push([item]);
    } else {
      retorno[posicaoArray].push(item);
    }
  }

  return retorno;
}
```

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7 kyu

[Number Manipulation I \(Easy\)](#)

JavaScript:

```
function manipulate(num) {
  let stringNum = String(num);
  let metade = Math.ceil(stringNum.length / 2);
  let desconto = 0;

  if (stringNum.length % 2 == 1) desconto = 1;

  return Number(stringNum.slice(0, metade - desconto) + "0".repeat(metade));
}
```

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8 kyu

[!a == a ?!](#)

JavaScript:

```
const a = [];

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```

6 kyu

[Kushim the Accountant: Extract \\$ values from text](#)

JavaScript:

```
function sumAccounts(text) {
  let ocorrencias = text.match(/[-]?[$][0-9]+/g);
  let total = 0;

  for (let i of ocorrencias) {
    total += parseInt(i.replace("$", ""));
  }
```

```

    }
    return total;
}

```

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8 kyu

[Is integer safe to use?](#)

JavaScript:

```
function SafeInteger(n) {
  return Number.isSafeInteger(n);
}
```

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8 kyu

[What's the real floor?](#)

JavaScript:

```
function getRealFloor(n) {
  if (n > 0) n--;
  if (n > 13) n--;
  return n;
}
```

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8 kyu

[Remove First and Last Character](#)

JavaScript:

```
function removeChar(str){
  return str.slice(1, str.length - 1);
};
```

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8 kyu

[Geometry Basics: Circle Area in 2D](#)

JavaScript:

```
function circleArea(circle){
  return Math.PI * Math.pow(circle.radius, 2);
}
```

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8 kyu

[Safe User Input Part I - htmlspecialchars](#)

JavaScript:

```
function htmlspecialchars(formData) {
  return formData.replace(/&/g, "&").replace(/</g, "<").replace(/>/g, ">").replace(/\"/g, """);
```

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8 kyu

[Is he gonna survive?](#)

JavaScript:

```
function hero(bullets, dragons){
  console.log(bullets)
  console.log(dragons)
  return bullets / dragons >= 2;
}
```

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7 kyu

[Describe the shape](#)

JavaScript:

```
function describeTheShape( angles ){
  if (angles <= 2) return "this will be a line segment or a dot";

  let d = Math.floor(((angles - 2) * 180) / angles);

  return `This shape has ${angles} sides and each angle measures ${d}`;
}
```

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Retired

[Summy](#)

JavaScript:

```
function summy(stringOfInts){
  return stringOfInts.split(" ").reduce((a, b) => parseInt(a) + parseInt(b), 0);
}
```

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7 kyu

[Love vs friendship](#)

JavaScript:

```
function wordsToMarks(string){
  let total = 0;
  for (let c = 0; c < string.length; c++) {
    total += string.charCodeAt(c) - 96;
  }

  return total;
}
```

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7 kyu

[Changing letters](#)

JavaScript:

```
function swap(st){
  return st.replace(/[aeiou]/g, function(char) { return char.toUpperCase()});
}
```

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7 kyu

[Point in a unit circle](#)

JavaScript:

```
function pointInCircle(x,y){
  return Math.sqrt(Math.pow(x, 2) + Math.pow(y,2)) < 1;
}
```

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8 kyu

[For Twins: 1. Types](#)

JavaScript:

```
function typeValidation(variable, type) {
  return typeof variable === type
}
```

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8 kyu

[Find the Integral](#)

JavaScript:

```
function integrate(coefficient, exponent) {
  exponent++;
  return (coefficient/exponent) + "x^" + exponent;
}
```

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8 kyu

[Will there be enough space?](#)

JavaScript:

```
function enough(cap, on, wait) {
  return on + wait > cap ? on + wait - cap : 0;
}
```

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8 kyu

[No Loops 2 - You only need one](#)

JavaScript:

```
function check(a,x){
  return a.indexOf(x) > -1;
};
```

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8 kyu

[Heads and Legs](#)

JavaScript:

```
function animals(heads, legs){
  let chickens = 0;
  let cows = 0;

  cows = (legs - 2*heads) / 2;
  chickens = heads - cows;

  if (cows < 0 || cows % 1 !== 0) {
    return 'No solutions';
  }

  if (chickens < 0 || chickens % 1 !== 0) {
    return 'No solutions';
  }

  return [chickens, cows];
}
```

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5 kyu

[Simple Pig Latin](#)

Ruby:

```
def pig_it text
  frase_final = ""
  text.split(" ").each do |palavra|
    if palavra.match /^[a-zA-Z]+$/i
      frase_final = frase_final + palavra[1..palavra.length] + palavra[0] + "ay" + " "
    else
      frase_final = frase_final + palavra
    end
  end
  frase_final.strip
end
```

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JavaScript:

```
function pigIt(str){
  let ret = "";
```

```

for (part of str.split(" ")) {
    ret += part.slice(1, part.length) + part[0] + "ay "
}

return ret.slice(0, ret.length - 1);
}

```

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8 kyu

[Get Nth Even Number](#)

JavaScript:

```

function nthEven(n){
    return (n-1)*2;
}

```

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7 kyu

[Simple Fun #49: Decipher](#)

JavaScript:

```

function decipher(cipher) {
    let retorno = '';
    let charCodeAtual = "";
    let numeroAtual = 0;
    for (let i = 0 ; i < cipher.length; i++) {
        charCodeAtual += String(cipher.slice(i, i+1));
        let charCodeAtualInteiro = parseInt(charCodeAtual);
        if (charCodeAtualInteiro > 50 && charCodeAtualInteiro < 130) {
            retorno += String.fromCharCode(charCodeAtual);
            charCodeAtual = "";
        }
    }
    return retorno;
}

```

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7 kyu

[Simple Fun #202: Min And Max](#)

JavaScript:

```

function minAndMax(l, d, x) {
    let valoresQueBatem = [];
    for (let y = l; y<=d ; y++) {
        let somaCaracteres = 0;
        let arrayCaracteres = String(y).split("");

        for (let caracter of arrayCaracteres) {
            somaCaracteres += parseInt(caracter);
        }

        if (somaCaracteres == x) {
            valoresQueBatem.push(y);
        }
    }

    return [valoresQueBatem[0], valoresQueBatem[valoresQueBatem.length - 1]];
}

```

- 7 years ago
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Retired

[Get list sum recursively!](#)

JavaScript:

```

function sumR(x) {
    return x.reduce((a, b) => a+b, 0);
}

```

- 7 years ago
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7 kyu

[Check if a triangle is an equable triangle!](#)

JavaScript:

```
function equableTriangle(a,b,c) {
  let perimetro = a + b + c;
  let metade_perimetro = perimetro / 2;
  let area = Math.sqrt(metade_perimetro*(metade_perimetro - a)*(metade_perimetro - b)*(metade_perimetro - c));
  return area == perimetro;
}
```

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6 kyu

[Coordinates Validator](#)

JavaScript:

```
function isValidCoordinates(coordinates){
  let coordenadas = coordinates.split(",");
  if (coordenadas.length != 2) return false;
  if(([a-zA-Z]+).test(coordenadas[0])) return false;
  if(([a-zA-Z]+).test(coordenadas[1])) return false;
  if (parseFloat(coordenadas[0]) != coordenadas[0]) return false;
  if (parseFloat(coordenadas[1]) != coordenadas[1]) return false;
  coordenadas[0] = parseFloat(coordenadas[0]);
  coordenadas[1] = parseFloat(coordenadas[1]);
  if (isNaN(coordenadas[0]) || coordenadas[0] < -90 || coordenadas[0] > 90) return false;
  if (isNaN(coordenadas[1]) || coordenadas[1] < -180 || coordenadas[1] > 180) return false;
  return true;
}
```

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6 kyu

[Hard Time Bomb](#)

JavaScript:

```
var wireCode = global.boom0 || global.boom1 || global.boom2 || global.boom3 || global.boom4 || global.boom5 || global.boom6 || global.boom7 || global.Bomb.CutTheWire(wireCode);
```

- 7 years ago
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8 kyu

[Polish alphabet](#)

JavaScript:

```
function correctPolishLetters (string) {
  return string
    .replace(/a/g, 'a')
    .replace(/ć/g, 'c')
    .replace(/ę/g, 'e')
    .replace(/ł/g, 'l')
    .replace(/ń/g, 'n')
    .replace(/ó/g, 'o')
    .replace(/ś/g, 's')
    .replace(/ź/g, 'z')
    .replace(/ż/g, 'z');
}
```

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Retired

[Vowel Changer](#)

JavaScript:

```
function vowelChange(str, vow) {
  return str.replace(/[aeiou]/g, vow);
}
```

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8 kyu

[Calculate Price Excluding VAT](#)

JavaScript:

```
//return price without vat
function excludingVatPrice(price){
  if (price == null) return -1;

  return parseFloat(parseFloat(price/1.15).toFixed(2));
}
```

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7 kyu

[Sum of array singles](#)

JavaScript:

```
function repeats(arr){
  let ja_ocorram = [];
  let ainda_nao_ocorram = [];
  for (i in arr) {
    if ((ja_ocorram.indexOf(arr[i]) > -1) || arr.slice(parseInt(i)+ 1, arr.length).indexOf(arr[i]) > -1) {
      ja_ocorram.push(arr[i]);
    } else {
      ainda_nao_ocorram.push(arr[i]);
    }
  }

  return ainda_nao_ocorram.reduce((a, b) => a + b, 0);
};
```

- 7 years ago
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- [Discuss](#)

8 kyu

[Counting sheep...](#)

JavaScript:

```
function countSheeps(arrayOfSheep) {
  let soma = 0;
  for (let i of arrayOfSheep) {
    if (i) soma++;
  }
  return soma;
}
```

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7 kyu

[Compare Strings by Sum of Chars](#)

JavaScript:

```
function compare(s1, s2) {
  let total_s1 = 0;
  let total_s2 = 0;
  let posicao_s1 = 0;
  let posicao_s2 = 0;

  if (typeof s1 == "string") {
    s1 = s1.toUpperCase();
    while(posicao_s1 < s1.length) {
      let valor_atual = s1.charCodeAt(posicao_s1);
      if (valor_atual < 65 || valor_atual > 90) {
        total_s1 = 0;
        break;
      }
      total_s1 += valor_atual;
      posicao_s1++;
    }
  } else {
    total_s1 = 0;
  }

  if (typeof s2 == "string") {
    s2 = s2.toUpperCase();
    while(posicao_s2 < s2.length) {
      let valor_atual = s2.charCodeAt(posicao_s2);
      if (valor_atual < 65 || valor_atual > 90) {
        total_s2 = 0;
        break;
      }
      total_s2 += s2.charCodeAt(posicao_s2);
      posicao_s2++;
    }
  } else {
    total_s2 = 0;
  }

  return total_s1 == total_s2;
}
```

- 7 years ago
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7 kyu

[Difference between years. \(Level 1\)](#)

JavaScript:

```
var howManyYears = function(date1, date2){
  let partes_data1 = date1.split('/');
  let ano1 = partes_data1[0];
  let partes_data2 = date2.split('/');
  let ano2 = partes_data2[0];
  return Math.abs(ano2 - ano1);
}
```

- 7 years ago
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6 kyu

[Break camelCase](#)

JavaScript:

```
// complete the function
function solution(string) {
  let retorno = '';
  for (let i = 0, len = string.length; i < len; i++) {
    if (string[i].charCodeAt(0) >= 65 && string[i].charCodeAt(0) <= 90) {
      retorno += " " + string[i];
    } else {
      retorno += string[i];
    }
  }
  return retorno;
}
```

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6 kyu

[Sum The Tree](#)

JavaScript:

```
// return the sum of all values in the tree, including the root
function sumTheTreeValues(root){
  let listaNos = [root];
  let soma = 0;
  while(listaNos.length > 0) {
    soma += listaNos[0].value;
    if (listaNos[0].left != null) {
      listaNos.push(listaNos[0].left);
    }
    if (listaNos[0].right != null) {
      listaNos.push(listaNos[0].right);
    }
    listaNos.shift();
  }
  return soma;
}
```

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6 kyu

[Equal Sides Of An Array](#)

Ruby:

```
def find_even_index(arr)
  arr.each_index do |indice|
    esquerda = arr.slice(0,indice)
    soma_esquerda = esquerda.empty? ? 0 : esquerda.inject(:+)
    soma_direita = arr.slice(indice+1,arr.length).inject(:+)
    soma_direita = 0 if soma_direita.nil?
    puts soma_direita.inspect
    return indice if soma_direita == soma_esquerda
  end
-1
end
```

- 7 years ago
- [Refactor](#)

JavaScript:

```
function findEvenIndex(arr) {
  console.log(arr);
  for (var i in arr) {
    i = parseInt(i);

    if (i == arr.length - 2) {
      break;
    }

    if (calcularSoma(arr.slice(0, i+1)) == calcularSoma(arr.slice(2+i))) {
      return i + 1;
    }
  }
}
```

```

    return -1;
}

function calcularSoma(array) {
    return array.reduce(function(valorAnterior, valorAtual) {
        return valorAnterior + valorAtual;
    });
}

```

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7 kyu

[You're a square!](#)

JavaScript:

```

var isSquare = function(n){
    return (Math.sqrt(n) % 1 == 0);
}

```

- 7 years ago
- [Refactor](#)

```

var isSquare = function(n){
    if (Math.sqrt(n) % 1 == 0) return true;
    return false;; // fix me
}

```

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7 kyu

[Basic Calculator](#)

JavaScript:

```

function calculate(num1, operation, num2) {
    if (operation == "+") {
        return num1 + num2;
    } else if (operation == "-") {
        return num1 - num2;
    } else if (operation == "*") {
        let retorno = num1 * num2;
        if (retorno == -0) retorno = 0;
        return retorno;
    } else if (operation == "/") {
        if (num2 == 0) return null;
        return num1 / num2;
    }
    return null;
}

```

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6 kyu

[Lucky Sevens](#)

JavaScript:

```

function luckySevens(arr) {
    let total = 0;
    for (let indiceLinha in arr) {
        let anterior = 0;
        let proximo = 0;
        let atual = 0;

        for (let indiceColuna in arr[indiceLinha]) {
            let arr1 = arr[indiceLinha];
            if (indiceColuna > 0) anterior = arr1[indiceColuna - 1];
            proximo = arr1[parseInt(indiceColuna) + 1];
            if (proximo == undefined) proximo = 0;
            atual = arr1[indiceColuna];

            let daLinhaAcima = 0;
            if (indiceLinha > 0) {
                daLinhaAcima = arr[indiceLinha - 1][indiceColuna];
            }
            let daLinhaAbaixo = 0;
            if (indiceLinha < arr.length - 1) {
                daLinhaAbaixo = arr[parseInt(indiceLinha) + 1][indiceColuna];
            }

            if (atual == 7) {
                if (Math.cbrt(anterior + proximo + daLinhaAcima + daLinhaAbaixo) % 1 == 0) {
                    total++;
                }
            }
        }
    }
    return total;
}

```

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6 kyu

[CamelCase Method](#)

JavaScript:

```
String.prototype.camelCase=function(){
  let partes = this.split(" ");
  let retorno = [];
  for (parte of partes) {
    retorno.push(parte.substr(0, 1).toUpperCase() + parte.substr(1));
  }
  return retorno.join('');
}
```

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6 kyu

[X marks the spot!](#)

JavaScript:

```
function x(n) {
  let retorno = [];
  let x = 0;
  while (x < n) {
    let linha = [];
    for (let y = 0; y < n; y++) linha[y] = 0;
    linha[x] = 1;
    linha[n - x - 1] = 1;
    retorno.push(linha);
    x++;
  }
  return retorno;
}
```

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7 kyu

[Is n divisible by \(...\)?](#)

JavaScript:

```
function isDivisible(){
  let numeroADividir = arguments['0'];
  for (let i in arguments) {
    if (i == '0') continue;
    if (numeroADividir % arguments[i] != 0) return false;
  }
  return true;
}
```

- 7 years ago
- [Refactor](#)

7 kyu

[Alternate case](#)

JavaScript:

```
function alternateCase(s) {
  let indiceCaracterAtual = 0;
  let retorno = '';
  while (indiceCaracterAtual < s.length) {
    let caracterAtual = s.slice(indiceCaracterAtual, indiceCaracterAtual + 1);
    let c = s.charCodeAt(indiceCaracterAtual);
    if (c >= 65 && c <= 90) {
      retorno += caracterAtual.toLowerCase();
    } else if (c >= 97 && c <= 122) {
      retorno += caracterAtual.toUpperCase();
    } else {
      retorno += caracterAtual;
    }
    indiceCaracterAtual++;
  }
  return retorno;
}
```

- 7 years ago
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```
function alternateCase(s) {
  let retorno = '';
  let charCodeAtual = null;
  for (let i=0; i<s.length; i++) {
    charCodeAtual = s.charCodeAt(i);
```

```

        if (charCodeAtual >= 65 && charCodeAtual <= 90) {
            retorno = retorno + s[i].toLowerCase();
        } else if (charCodeAtual >= 97 && charCodeAtual <= 122) {
            retorno = retorno + s[i].toUpperCase();
        } else {
            retorno = retorno + s[i];
        }
    }
    return retorno;
}

```

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7 kyu

[Lowercase strings in array](#)

JavaScript:

```

function arrayLowerCase(arr) {
    retorno = [];
    for (var item of arr) {
        if (typeof item == "string") {
            item = item.toLowerCase();
        }
        retorno.push(item);
    }
    return retorno;
    // return array of strings in lowercase
}

```

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6 kyu

[IP Validation](#)

PHP:

```

function isValidIP(string $str): bool
{
    $matches = array();
    preg_match('/^(\d{1,3})\.(\d{1,3})\.(\d{1,3})\.(\d{1,3})$/', $str, $matches);
    if (!is_array($matches) || count($matches) != 5) {
        return false;
    }

    for ($i = 1; $i <= 4; $i++) {
        $matches[$i] = (int) $matches[$i];
        if ($matches[$i] < 0 || $matches[$i] > 255) {
            return false;
        }
    }

    return true;
}

```

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5 kyu

[Resistor Color Codes, Part 2](#)

JavaScript:

```

function encodeResistorColors(ohmsString) {
    let valorString = String(parseFloat(ohmsString)).replace(/\./, '');
    let existiaPonto = ohmsString.indexOf('.') > -1 ? true : false;
    let comprimentoValor = String(parseInt(ohmsString)).length;
    let primeiraCasa = obterTextoCor(valorString[0]);
    let segundaCasa;
    if (comprimentoValor > 1 || existiaPonto) {
        segundaCasa = obterTextoCor(valorString[1]);
    } else {
        segundaCasa = obterTextoCor(0);
    }
    let terceiraCasa = '';

    if (ohmsString.indexOf("M") > -1) {
        terceiraCasa = obterTextoCor(comprimentoValor + 4);
    } else if (ohmsString.indexOf("K") > -1) {
        terceiraCasa = obterTextoCor(comprimentoValor + 1);
    } else {
        terceiraCasa = obterTextoCor(comprimentoValor - 2);
    }

    return `${primeiraCasa} ${segundaCasa} ${terceiraCasa} gold`;
}

function obterTextoCor(numero) {
    let relacao = ['black', 'brown', 'red', 'orange', 'yellow', 'green', 'blue', 'violet', 'gray', 'white'];
    return relacao[numero];
}

```

```
    return relacao[numero];
}
```

- 7 years ago
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Ruby:

```
def encode_resistor_colors(ohms_string)
  valor_string = String(ohms_string.to_f).sub(/\./, "")
  puts valor_string
  existia_ponto = ohms_string.index('.').nil? ? false : true;
  comprimento_valor = String(ohms_string.to_i).length
  primeira_casa = obter_texto_cor(valor_string[0]);

  if (comprimento_valor > 1 || existia_ponto) then
    segunda_casa = obter_texto_cor(valor_string[1]);
  else
    segunda_casa = obter_texto_cor(0);
  end

  if (ohms_string.index("M").nil? === false) then
    terceira_casa = obter_texto_cor(comprimento_valor + 4)
  elsif (ohms_string.index("k").nil? === false) then
    terceira_casa = obter_texto_cor(comprimento_valor + 1)
  else
    terceira_casa = obter_texto_cor(comprimento_valor - 2)
  end

  "#{primeira_casa} #{segunda_casa} #{terceira_casa} gold"
end
```

```
def obter_texto_cor(numero)
  ['black', 'brown', 'red', 'orange', 'yellow', 'green', 'blue', 'violet', 'gray', 'white'][numero.to_i]
end
```

- 7 years ago
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Retired

[Simple Fun #262: Case Unification](#)

JavaScript:

```
function caseUnification(s) {
  let indiceCaracterAtual = 0;
  let totalMaiusculas = 0;
  let totalMinusculas = 0;

  while (indiceCaracterAtual < s.length) {
    let codigoAsciiCaracterAtual = s.charCodeAt(indiceCaracterAtual);
    if (codigoAsciiCaracterAtual >= 65 && codigoAsciiCaracterAtual <= 90) {
      totalMaiusculas++;
    } else if (codigoAsciiCaracterAtual >= 97 && codigoAsciiCaracterAtual <= 122) {
      totalMinusculas++;
    }
    indiceCaracterAtual++;
  }

  if (totalMaiusculas > totalMinusculas) {
    return s.toUpperCase();
  }
  return s.toLowerCase();
}
```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

6 kyu

[Return 1, 2, 3 randomly](#)

JavaScript:

```
function one_two_three() {
  while (true) {
    let rodada1 = one_two();
    let rodada2 = one_two();

    if (rodada1 == 1 && rodada2 == 1) return 1;
    if (rodada1 == 1 && rodada2 == 2) return 2;
    if (rodada1 == 2 && rodada2 == 1) return 3;
  }
}
```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

7 kyu

[Simple Fun #182: Happy "g"](#)

JavaScript:

```
function gHappy(str) {
    return str.replace(/g{2,}/g, '').indexOf('g') == -1;
}

• 7 years ago
• Refactor
• Discuss
```

8 kyu  
[altERnaTIng cAsE <=> ALTerNAtiNG CaSe](#)

JavaScript:

```
String.prototype.toAlternatingCase = function () {
    let retorno = '';
    for (let i = 0 ; i < this.length ; i++) {
        let ascii = this.charCodeAt(i);
        if (ascii >= 65 && ascii <= 90) {
            retorno += this[i].toLowerCase();
        } else {
            retorno += this[i].toUpperCase();
        }
    }
    return retorno;
}
```

- 7 years ago
- Refactor
- Discuss

8 kyu  
[Find the first non-consecutive number](#)

JavaScript:

```
function firstNonConsecutive (arr) {
    let anterior = null;
    for (let i of arr) {
        if (anterior != null && i - 1 != anterior) {
            return i;
        }
        anterior = i;
    }
    return null;
}
```

- 7 years ago
- Refactor
- Discuss

6 kyu  
[Simple Fun #221: Furthest Distance Of Same Letter](#)

JavaScript:

```
function distSameLetter(s) {
    let posicoesIniciais = {}
    let maiorDistancia = 0;
    let letraMaiorDistancia = '';
    for (let posicao in s) {
        let letra = s[posicao];
        if (posicoesIniciais[letra] == undefined) {
            posicoesIniciais[letra] = posicao;
        } else if (posicao - posicoesIniciais[letra] + 1 > maiorDistancia) {
            letraMaiorDistancia = letra;
            maiorDistancia = posicao - posicoesIniciais[letra] + 1;
        }
    }
    return letraMaiorDistancia + maiorDistancia;
}
```

- 7 years ago
- Refactor
- Discuss

7 kyu  
[Simple Fun #204: Smallest Integer](#)

Ruby:

```
def smallest_integer(matrix)
    matrix_flatten = matrix.flatten.sort!
    return 0 if matrix_flatten[-1] < 0
    numero_atual = nil
    (0 .. matrix_flatten[-1]).each do |n|
        numero_atual = n
        return n unless matrix_flatten.include? n
    end
    numero_atual + 1
end
```

- 7 years ago

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- [Discuss](#)

7 kyu

[Flatten and sort an array.](#)

Ruby:

```
def flatten_and_sort(array)
  array.flatten.sort
end
```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

5 kyu

[A Chain adding function](#)

JavaScript:

```
function add (valor) {
  var funcaoAuxiliar = function(v) {
    return add(valor + v);
  }
  funcaoAuxiliar.valueOf = function() {
    return valor;
  }
  return funcaoAuxiliar;
}
```

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7 kyu

[Simple Fun #6: Is Infinite Process?](#)

JavaScript:

```
function isInfiniteProcess(a, b) {
  if ((a > b) || (a + b) % 2 == 1) return true;
  return false;
}
```

- 7 years ago
- [Refactor](#)
- [Discuss](#)

7 kyu

[All unique](#)

JavaScript:

```
function hasUniqueChars(str){
  let caracteresAnteriores = []
  for (caracter of str.split('')) {
    if (caracteresAnteriores.indexOf(caracter) > -1) return false;
    caracteresAnteriores.push(caracter);
  }
  return true;
}
```

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7 kyu

[Simple Fun #17: Rounders](#)

JavaScript:

```
function rounders(value) {
  let retorno = '';
  let valorAIterar = String(value).split('').reverse();
  let acrescentarAoProximo = 0;
  for (let i in valorAIterar) {
    let atual = parseInt(valorAIterar[i]) + acrescentarAoProximo;
    if (atual >= 5) {
      acrescentarAoProximo = 1;
    } else {
      acrescentarAoProximo = 0;
    }
    if (i < String(value).length - 1) atual = '0';
    retorno = String(atual) + retorno;
  }
  return parseInt(retorno);
}
```

- 7 years ago
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- [Discuss](#)

5 kyu

[Directions Reduction](#)

Ruby:

```
def dirReduc(arr)
  opositos = {'NORTH' => 'SOUTH', 'SOUTH' => 'NORTH', 'EAST' => 'WEST', 'WEST' => 'EAST'}
  reducao = []
  arr.each_with_index do |elemento, indice|
    if opositos[elemento] == reducao.last
      reducao.pop
    else
      reducao.push elemento
    end
  end
  reducao
end
```

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- [Discuss](#)

Retired

[Valid Parentheses](#)

Ruby:

```
def valid_parentheses(string)
  total_aberturas = 0
  string.split('').each do |caracter|
    if caracter == "("
      return false if total_aberturas == 0
      total_aberturas = total_aberturas + 1
    elsif caracter == ")"
      total_aberturas = total_aberturas - 1
    end
  end
  total_aberturas == 0
end
```

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```
def valid_parentheses(string)
  retorno = true
  total_parentheses_abertura = 0
  total_parentheses_fechamento = 0
  string.each_char do |char|
    if char == "("
      total_parentheses_abertura = total_parentheses_abertura + 1
    elsif char == ")"
      return false if total_parentheses_abertura == 0
      total_parentheses_abertura = total_parentheses_abertura - 1
    end
  end
  total_parentheses_abertura == 0
end
```

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[Two Oldest Ages](#)

Ruby:

```
# return the two oldest/oldest ages within the array of ages passed in.
def two_oldest_ages(ages)
  maior = 0
  segundo_maior = 0
  ages.each do |age|
    if age > maior
      segundo_maior = maior
      maior = age
    elsif age > segundo_maior
      segundo_maior = age
    end
  end
  [segundo_maior, maior]
end
```

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[The Hashtag Generator](#)

JavaScript:

```
function generateHashtag (str) {
    let retorno = '';
    for (let palavra of str.split(" ")) {
        retorno = retorno + palavra.charAt(0).toUpperCase() + palavra.slice(1);
    }

    if (retorno == '') return false;

    retorno = "#" + retorno;

    if (retorno.length > 140) return false;

    return retorno;
}
```

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Ruby:

```
def generateHashtag str
    retorno = (str.gsub /\+/ , ' ').split(" ").map {|palavra| palavra.capitalize}.join("")

    return false if retorno.length >=139 or retorno == "";
    "#" + retorno;
end
```

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PHP:

```
function generateHashtag($str) {
    $stringReturn = '';

    // Changing 2+ spaces by a unique space
    $str = preg_replace("/\s+/", " ", $str);

    foreach (explode(' ', $str) as $word) {
        $stringReturn = $stringReturn . ucfirst($word);
    }

    if (strlen($stringReturn) >=139 || empty($stringReturn)) return false;

    return "#" . $stringReturn;
}
```

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```
function generateHashtag($str) {
    $stringReturn = '';

    // Changing 2+ spaces by a unique space
    $str = preg_replace("/\s+/", " ", $str);

    foreach (explode(' ', $str) as $word) {
        $stringReturn = $stringReturn . ucfirst($word);
    }

    if (strlen($stringReturn) >139 || empty($stringReturn)) return false;

    return "#" . $stringReturn;
}
```

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[Number of People in the Bus](#)

JavaScript:

```
var number = function(busStops){
    retorno = 0;
    for (let movimentacoes of busStops) {
        retorno = retorno + movimentacoes[0] - movimentacoes[1];
    }

    if (retorno < 0) retorno = 0;
    return retorno;
}
```

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[Remove exclamation marks](#)

JavaScript:

```
function removeExclamationMarks(s) {
    return s.split('!').join('');
}
```

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**PHP:**

```
function remove_exclamation_marks($string) {
    return str_replace('!', '', $string);
}
```

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7 kyu

[Simple Fun #137: S2N](#)**JavaScript:**

```
function S2N(m, n) {
    let soma = 0;
    let baseAtual = 0;
    let expoenteAtual = 0;

    while (baseAtual <= m) {
        expoenteAtual = 0;
        while (expoenteAtual <= n) {
            soma += Math.pow(baseAtual, expoenteAtual);
            expoenteAtual++;
        }
        baseAtual++;
    }

    return soma;
}
```

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[Volume of a Cuboid](#)**JavaScript:**

```
var Kata;

Kata = (function() {
    function Kata() {}

    Kata.getVolumeOfCuboid = function(length, width, height) {
        return length * width * height;
    };

    return Kata;
})();


```

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**PHP:**

```
$kata = new class {
    public function get_volume_of_cuboid($length, $width, $height) {
        return $length * $width * $height;
    }
};
```

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**Java:**

```
public class Kata {

    public static double getVolumeOfCuboid(final double length, final double width, final double height) {
        // Your code here
        return length * width * height;
    }

}


```

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**Python:**

```
def getVolumeOfCuboid(length, width, height):  
    return length * width * height
```

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## Ruby:

```
def get_volume_of_cuboid(length, width, height)
    length * width * height
end
```

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C:

```
double getVolumeOfCuboid(double length, double width, double height) {  
    return length * width * height;  
}
```

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### Cut array into smaller parts

PHP:

```
function makeParts($arr,$chunkSize){  
    return array_chunk($arr, $chunkSize);  
}
```

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## JavaScript:

```
function makeParts(arr, chunkSize) {
  retorno = [];
  while (arr.length > 0) {
    retorno.push(arr.splice(0, chunkSize));
  }
  return retorno;
}
```

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## Simple Fun #181: Rounding

## JavaScript:

```
function rounding(n, m) {
    let numeroAbaixo = Math.floor(n/m) * m;
    let numeroAcima = Math.ceil(n/m) * m;
    console.log(numeroAbaixo);
    console.log(numeroAcima);

    if (n == (numeroAcima + numeroAbaixo) / 2) return n;
    return n - numeroAbaixo < numeroAcima - n ? numeroAbaixo : numeroAcima;
}
```

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### The maximum and minimum difference -- Simple version

## JavaScript:

```
    return [maiorDiferenca, menorDiferenca];
}
```

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[Simple Fun #13: Magical Well](#)

JavaScript:

```
function magicalWell(a, b, n) {
  let retorno = 0;
  while (n > 0) {
    retorno = retorno + a * b;
    a++;
    b++;
    n--;
  }
  return retorno;
}
```

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PHP:

```
function magical_well($a, $b, $n) {
  $retorno = 0;
  while ($n > 0) {
    $retorno = $retorno + $a * $b;
    $n--;
    $a++;
    $b++;
  }
  return $retorno;
}
```

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[Keep Hydrated!](#)

JavaScript:

```
function litres(time) {
  return Math.floor(0.5*time);
}
```

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[Character limits: How long is your piece of string?](#)

JavaScript:

```
function charCheck(text, max, spaces){
  if (! spaces) {
    text = text.replace(/\s/g, '');
  }

  let estourouLimite = false;
  if (text.length > max) {
    estourouLimite = true;
  }

  return [!estourouLimite, text.substr(0, max)];
};
```

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```
function charCheck(text, max, spaces){
  //Do your magic here!
  if (! spaces) {
    text = text.split(' ').join('');
  }

  let booleanoTamanho = text.length <= max;

  return [booleanoTamanho, text.substr(0, max)];
};
```

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[Replace all items](#)

JavaScript:

```
function replaceAll(seq, find, replace) {
  console.log(typeof seq);
  console.log(seq);
  console.log(find);
  console.log(replace);

  if (Array.isArray(seq)) {
    seq.forEach(function(item, i) {
      if (item == find) {
        seq[i] = replace;
      }
    });
  } else if (typeof seq == "string") {
    return seq.split(find).join(replace);
  }
  return seq;
}
```

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[Are they square?](#)

JavaScript:

```
var isSquare = function(arr){
  console.log(arr);
  if (!Array.isArray(arr)) || arr.length == 0) {
    return undefined;
  }
  return arr.every(item => Math.sqrt(item) == Math.floor(Math.sqrt(item)))
}
```

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[Are they the "same"?](#)

JavaScript:

```
function comp(array1, array2){
  if(array1 == null || array2 == null) {
    return false;
  }

  for (let item of array2) {
    let posicaoNoArray1 = array1.indexOf(Math.sqrt(item));
    if (posicaoNoArray1 == -1) {
      return false;
    }

    array1.splice(posicaoNoArray1, 1);
  }
  return true;
}
```

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[Find The Parity Outlier](#)

PHP:

```
function find($integers) {
  $pares = [];
  $impares = [];
  foreach($integers as $numero) {
    if ($numero % 2 == 0) {
      $pares[] = $numero;
    } else {
      $impares[] = $numero;
    }
  }

  if (count($pares) == 1) {
    return $pares[0];
  } elseif (count($impares) == 1) {
    return $impares[0];
  }

  throw new \InvalidArgumentException('Existe mais de 1 par e mais de 1 ímpar');
}
```

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[Remove the minimum](#)

JavaScript:

```
function removeSmallest(numbers) {
  var retorno = numbers;
  retorno.splice(retorno.indexOf(Math.min(...numbers)),1);
  return retorno;
}
```

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[Remove String Spaces](#)

Ruby:

```
def no_space(x)
  x.gsub(/\s/, "")
end
```

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Python:

```
def no_space(x):
    return x.replace(" ", "")
```

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Retired

[Count the Characters](#)

PHP:

```
function count_char(string $s, string $c): int {
    // Your mission, should you choose to accept it.
    $c = strtolower($c);
    $s = strtolower($s);
    $total = 0;
    for ($i = 0; $i < strlen($s); $i++) {
        if ($s[$i] == $c) {
            $total++;
        }
    }
    return $total;
}
```

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[Jaden Casing Strings](#)

PHP:

```
function toJadenCase($string)
{
    $partes = explode(' ', $string);

    foreach($partes as $indice => $parte) {
        $partes[$indice] = ucfirst($parte);
    }

    return implode($partes, ' ');
}
```

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[Two to One](#)

PHP:

```
function longest($a, $b) {
    $string = $a . $b;
    return extraCaracteresUnicos($string);
}

function extraCaracteresUnicos($string) {
```

```

$caracteresUnicos = array();
for ($i = 0 ; $i < strlen($string); $i++) {
    if (false === array_search($string[$i], $caracteresUnicos)) {
        $caracteresUnicos[] = $string[$i];
    }
}
sort($caracteresUnicos);
return implode($caracteresUnicos, '');
}

```

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[Get the Middle Character](#)

JavaScript:

```

function getMiddle(s)
{
    var posicaoCaracteresMeio = null;
    posicaoMeio = Math.floor(s.length / 2) - 1;

    if (s.length & 1 == 1) {
        return s.substring(posicaoMeio + 1, posicaoMeio + 2);
    }
    return s.substring(posicaoMeio, posicaoMeio + 2);
}

```

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[Is a number prime?](#)

Ruby:

```

# Test if number is prime
def isPrime(num)
    num = num.to_i
    return false unless num > 1
    divisor = num / 2
    while divisor >= 2
        return false if num / divisor == num.to_f / divisor
        divisor = divisor - 1
    end
    true
end

```

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[#~For Kids~# d/m/Y -> Day of the week.](#)

Ruby:

```

require 'date'

def dayOfTheWeek(date)
    DateTime.parse(date).strftime('%A')
end

```

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[Sum of two lowest positive integers](#)

Ruby:

```

def sum_two_smallest_numbers(numbers)
    numbers.sort!
    numbers[0] + numbers[1]
end

```

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[What's a Perfect Power anyway?](#)

Ruby:

```

def isPP(numero)
    base = 2
    expoente = 2
    pares = []

```

```

while base ** expoente <= numero do
  while base ** expoente <= numero do
    resultado = base ** expoente
    pares.push(base, expoente) if resultado == numero
    base = base + 1
  end

  base = 2
  expoente = expoente + 1
end

pares = nil if pares.empty?
return pares
end

```

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[Split Strings](#)

Ruby:

```

def solution(str)
  i = 0
  array_final = []
  while i < (str.length.to_i + 1)/2 do
    resultado = str.slice(i*2, 2)
    resultado = resultado + "_" if resultado.length.to_i < 2
    array_final.push(resultado)
    i = i + 1
  end
  array_final
end

```

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```

def solution(str)
  i = 0
  array_final = []
  puts str
  while i < (str.length.to_i + 1)/2 do
    resultado = str.slice(i*2, 2)
    resultado = resultado + "_" if resultado.length.to_i < 2
    array_final.push(resultado)
    i = i + 1
  end
  puts array_final.inspect
  array_final
end

```

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[Friend or Foe?](#)

Ruby:

```

def friend(friends)
  friends.map{|nome| nome if nome.length==4}.compact
end

```

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7 kyu

[Mumbling](#)

Ruby:

```

def accum(s)
  i=-1
  texto = s.chars.map do |item|
    i = i+1
    item.upcase + item.downcase * i + "-"
  end.join
  texto[0, texto.length - 1]
end

```

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Retired

[Circles intersection](#)

JavaScript:

```

function circles_intersects(circle1, circle2) {
  let distance = Math.sqrt(Math.abs(circle1.center.x - circle2.center.x) + Math.abs(circle1.center.y - circle2.center.y));

```

```
    return (circle1.radius + circle2.radius) > distance;
}
```

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[Number of diagonals](#)

PHP:

```
function diagonals($sides) {
    return $sides * ($sides - 3) / 2;
}
```

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Retired

[Sum of items major than 3](#)

Ruby:

```
def sum_items
    t = 0
    items.each do |i|
        t += i if i > 3
    end
    t
end
```

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Retired

[Max number](#)

Ruby:

```
def max(items)
    r = 0

    for i in items do
        if i > r
            r = i
        end
    end

    r
end
```

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Retired

[Number of vowels](#)

Ruby:

```
def vowels arg
    total = 0
    arg.downcase!

    arg.each_char do |c|
        if c == "a" or c == 'e' or c == "i" or c == "o" or c == "u"
            total = total + 1
        end
    end

    total
end
```

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[Alphabet order](#)

Ruby:

```
def order s1, s2
    return s1.downcase() < s2.downcase() ? 1 : 2
end
```

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[Sum of items major than 3](#)

Ruby:

```
def sum_3 arr
  sum = 0
  arr.each do | item |
    sum = sum + item if item > 3
  end
  sum
end
```

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Draft

[andreat82's Kumite #67](#)

JavaScript:

```
function sum(items) {
  let sum = 0;

  for (const item of items) {
    sum = sum + (item.unitary_price * item.quantity);
  }

  return sum;
}
```

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Retired

[Sum of all items is 10](#)

Ruby:

```
def sum arr
  arr.each { |i|
    return false if i.reduce(:+) != 10
  }
  true
end
```

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Retired

[Pie in the face](#)

Ruby:

```
def game data
  if data[0] < data[1]
    return data[2] ? 1 : 2
  else
    return data[2] ? 2 : 1
  end
end
```

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Retired

[Minor items](#)

Ruby:

```
def minor arr, limit
  ret = []
  arr.each{|i|
    ret.push(i) if i < limit
  }
  ret
end
```

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Retired

[Expression with square brackets](#)

Ruby:

```
def solve expression
  return eval(expression.gsub("[", "(").gsub("]", ")"))
end
```

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Retired

[Sum of faces of dice you can see](#)

Ruby:

```
def sum face
  21 - face
end
```

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Retired

[A great number in a list](#)

PHP:

```
function hasBigNumber($numbers) {
  $sum = array_sum($numbers);

  foreach ($numbers as $number) {
    if ($sum - $number < $number) {
      return true;
    }
  }
  return false;
}
```

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Retired

[Is the calculation true?](#)

Ruby:

```
def calculate a, operation, b, result
  return ((eval "#{a} #{operation} #{b}").to_i == result)
end
```

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Retired

[Second degree](#)

JavaScript:

```
function segundoGrau(a, b, c) {
  const delta = b*b - 4*a*c;
  if (delta < 0) {
    return null;
  }

  const root1 = (-b + Math.sqrt(delta)) /(4 * a);

  if (delta == 0) {
    return [root1];
  }

  const root2 = (-b - Math.sqrt(delta)) /(4 * a);
  return [root1, root2];
}
```

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Retired

[Sum of two items is other item](#)

Ruby:

```
def sum items
  items.each_with_index { |item1, index1|
    items.each_with_index { |item2, index2|
      if index1 == index2
        next
      end
      return true if items.include? item1 + item2
    }
  }
end
```

```
false  
end
```

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