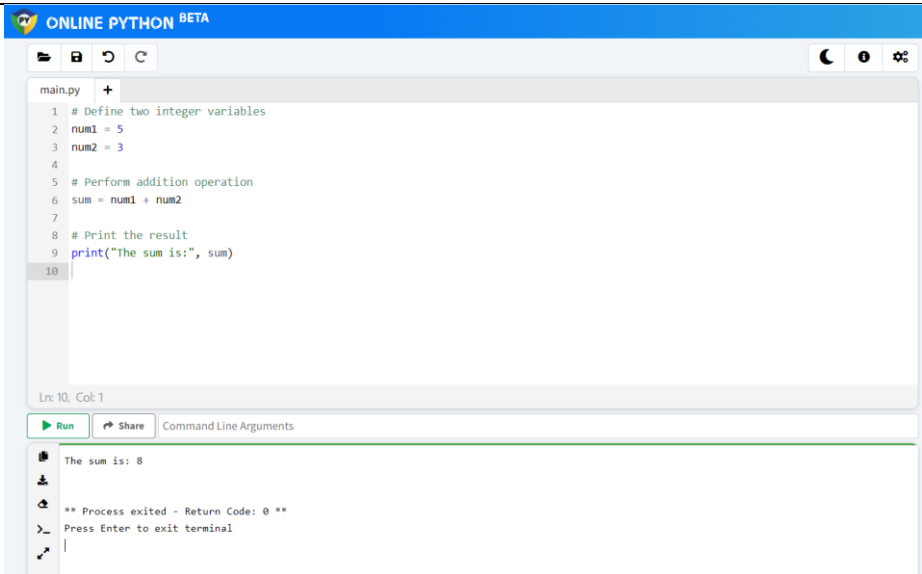


Koda ģenerēšana – Meta AI

Instruction	Output	Koda rezultāti
<p>Please generate Python code that defines two integer variables and then does a simple addition operation.</p>	<pre># Define two integer variables num1 = 5 num2 = 3 # Perform addition operation sum = num1 + num2 # Print the result print("The sum is:", sum)</pre>	 <p>The screenshot shows an online Python IDE interface. The top bar is blue with the text "ONLINE PYTHON BETA". Below the bar, there are icons for file operations (new, open, save, close) and a settings icon. The main area is a code editor with a file named "main.py". The code in the editor is: <pre>1 # Define two integer variables 2 num1 = 5 3 num2 = 3 4 5 # Perform addition operation 6 sum = num1 + num2 7 8 # Print the result 9 print("The sum is:", sum) 10</pre> Below the code editor, there are buttons for "Run" (a green play icon) and "Share". To the right of the "Share" button is a text input field labeled "Command Line Arguments". Below these buttons, the output of the code execution is displayed: <pre>The sum is: 8 ** Process exited - Return Code: 0 ** Press Enter to exit terminal</pre></p>

An isogram is a word that has no repeating letters, consecutive or non-consecutive. Implement a function that determines whether a string that contains only letters is an isogram. Assume the empty string is an isogram. Ignore letter case.

```
def is_isogram(string):  
    """  
    Determine if a string is an  
    isogram (has no repeating letters).  
  
    Args:  
        string (str): The input string.  
  
    Returns:  
        bool: True if the string is an  
        isogram, False otherwise.  
    """  
    # Convert the string to lowercase  
    # to ignore letter case  
    string = string.lower()  
    # Create a set from the string,  
    # which automatically removes  
    # duplicates  
    unique_letters = set(string)  
    # Check if the length of the set is  
    # equal to the length of the original  
    # string  
    return len(unique_letters) ==  
    len(string)
```

7kku

Isograms ✓

☆ 2738 ● 612 🔄 90% of 19,876 🌐 84,096 of 238,607 👤 chunjef 🚩 5 Issues Reported

Instructions **Output** Past Solutions

Time: 483ms Passed: 50 Failed: 0

Test Results:

Fixed Tests

Basic Test Cases (10 of 10 Assertions)

Completed in 0.14ms

Random tests

Testing for IVZxWMiv

Testing for rDqJvSngrANYPCaqiExuMaoiGZa

Testing for ivdxqFRqWubMCFugrKHVHPwNbeZaluMiJSFpYsXz

Testing for DsGOezejVvCMdxWIGXDijgvQhYBdNIPBHnnagQU

Testing for UQvZYHBDJvg

Testing for mahffUcMFrfa

Testing for CFxjqgDzAZICIMAN

Testing for WfYISBekAhjoj

Testing for SNBZiQlnRbjkiMLHaNnixaDQfbOKYdVQJHKPbUC

Testing for GlnVApytpL

Testing for vaVkpKuFJzWbbMBVjXHUhv

Testing for XSRBbRQIYyeovAASchmtpeVXcpVSkFBmj

Testing for ElpNDgOoeUI

Check to see if a string has the same amount of 'x's and 'o's. The method must return a boolean and be case insensitive. The string can contain any char.

```
def has_equal_x_and_o(string):  
    """  
    Check if a string has the same  
    amount of 'x's and 'o's.  
  
    Args:  
        string (str): The input string.  
  
    Returns:  
        bool: True if the string has  
        equal 'x's and 'o's, False otherwise.  
    """  
    # Convert the string to lowercase  
    # to ignore case  
    string = string.lower()  
    # Count the number of 'x's and  
    # 'o's  
    x_count = string.count('x')  
    o_count = string.count('o')  
    # Return True if the counts are  
    # equal, False otherwise  
    return x_count == o_count
```

Exes and Ohs

1839 401 89% of 19,596 82,583 of 236,987 joh_pot 2 Issues Reported

Instructions Output Past Solutions

Time: 435ms Passed: 64 Failed: 0

Test Results:
Fixed tests
> s = 'xo'
> s = 'XO'
> s = 'xo0'
> s = 'xxxxoo'
> s = 'ooxx'
> s = 'xooxx'
> s = 'ooxXm'
> s = 'zpzpzpp'
> s = 'zzoo'
> s = 'oXOx'
> s = ''
> s = 'xxxxxooxxooo'
> s = 'xxxxxoooXooo'
> s = 'abcdefghijklmnopqrstuvwxyz'
Completed in 0.53ms
Random tests

A pangram is a sentence that contains every single letter of the alphabet at least once. For example, the sentence "The quick brown fox jumps over the lazy dog" is a pangram, because it uses the letters A-Z at least once (case is irrelevant). Given a string, detect whether or not it is a pangram. Return True if it is, False if not. Ignore numbers and punctuation

```
def is_pangram(string):  
    """  
    Detect whether a string is a  
    pangram (contains every letter of  
    the alphabet at least once).  
  
    Args:  
        string (str): The input string.  
  
    Returns:  
        bool: True if the string is a  
        pangram, False otherwise.  
    """  
    # Convert the string to lowercase  
    and remove non-alphabetic  
    characters  
    alphabet =  
    "abcdefghijklmnopqrstuvwxyz"  
    string = "".join(filter(str.isalpha,  
        string.lower()))  
    # Check if every letter of the  
    alphabet is in the string  
    return set(alphabet) <=  
    set(string)
```

6 kyu

Detect Pangram

☆ 2421 573 92% of 12,666 66,899 of 168,703 anindyabd 6 Issues Reported

Instructions Output Past Solutions

Time: 541ms Passed: 8 Failed: 0

Test Results:
Fixed tests
Test pangrams (5 of 5 Assertions)
Test non-pangrams (3 of 3 Assertions)
Completed in 0.29ms

You have passed all of the tests! :)

Write a function, persistence, that takes in a positive parameter num and returns its multiplicative persistence, which is the number of times you must multiply the digits in num until you reach a single digit.

```
def persistence(num):  
    """  
    Calculate the multiplicative  
    persistence of a number.  
  
    Args:  
        num (int): A positive  
        integer.  
  
    Returns:  
        int: The multiplicative  
        persistence of the number.  
    """  
  
    # Convert the number to a  
    string to easily access its digits  
    num_str = str(num)  
    # Initialize the persistence  
    counter  
    persistence_count = 0  
    # Loop until the number is  
    reduced to a single digit  
    while len(num_str) > 1:  
        # Initialize the product of  
        the digits  
        product = 1  
        # Calculate the product of  
        the digits  
        for digit in num_str:  
            product *= int(digit)  
        # Update the number string  
        and increment the persistence  
        counter  
        num_str = str(product)
```

6.kyu Persistent Bugger. ✓

☆ 4309 🌟 798 🔄 91% of 16,813 📊 67,130 of 186,366 👤 joh_pot 🚩 1 Issue Reported

Instructions Output Past Solutions

Time: 451ms Passed: 55 Failed: 0

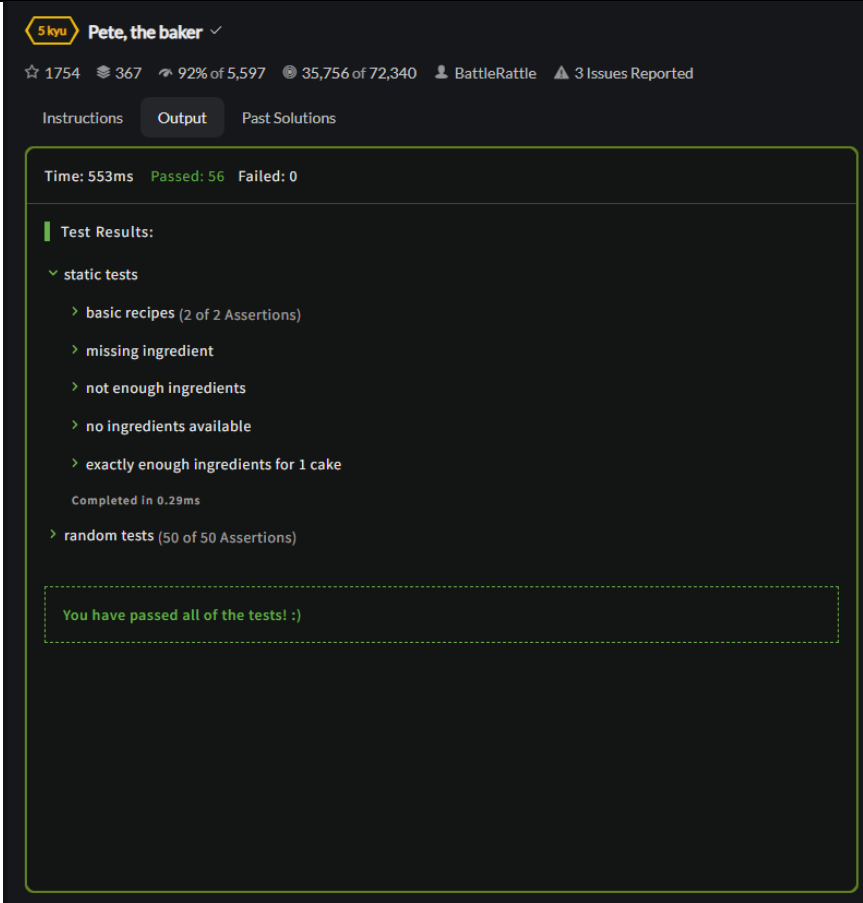
Test Results:

▼ Persistent Bugger.

- Basic Test Cases (5 of 5 Assertions)
- Random tests (50 of 50 Assertions)

Completed in 1.24ms

You have passed all of the tests! :)

	<pre> persistence_count += 1 # Return the persistence count return persistence_count </pre>	
<p>Write a function <code>cakes()</code>, which takes the recipe (object) and the available ingredients (also an object) and returns the maximum number of cakes Pete can bake (integer). For simplicity there are no units for the amounts (e.g. 1 lb of flour or 200 g of sugar are simply 1 or 200). Ingredients that are not present in the objects, can be considered as 0.</p>	<pre> def cakes(recipe, available): """ Calculate the maximum number of cakes that can be baked. Args: recipe (dict): A dictionary containing the recipe (e.g. {"flour": 500, "sugar": 200, "eggs": 1}). available (dict): A dictionary containing the available ingredients (e.g. {"flour": 1200, "sugar": 1200, "eggs": 5, "milk": 3000}). Returns: int: The maximum number of cakes that can be baked. """ # Initialize the maximum number of cakes to infinity max_cakes = float('inf') # Iterate over the ingredients in the recipe for ingredient, amount in recipe.items(): # Get the available amount of the ingredient (default to 0 if not present) available_amount = available.get(ingredient, 0) # Calculate the number of cakes that can be baked with this ingredient </pre>	

	<pre> cakes_with_ingredient = available_amount // amount # Update the maximum number of cakes max_cakes = min(max_cakes, cakes_with_ingredient) # Return the maximum number of cakes return max_cakes</pre>	
--	--	--

You probably know the "like" system from Facebook and other pages. People can "like" blog posts, pictures or other items. We want to create the text that should be displayed next to such an item. Implement the function which takes an array containing the names of people that like an item. It must return the display text as shown in the examples

```
def likes(names):
    """
    Generate the display text for the
    "like" system.

    Args:
        names (list): A list of names of
        people who like the item.

    Returns:
        str: The display text.
    """
    if len(names) == 0:
        return "no one likes this"
    elif len(names) == 1:
        return "{} likes
this".format(names[0])
    elif len(names) == 2:
        return "{} and {} like
this".format(names[0], names[1])
    elif len(names) == 3:
        return "{} , {} and {} like
this".format(names[0], names[1],
names[2])
    else:
        return "{} , {} and {} others like
this".format(names[0], names[1],
len(names) - 2)
```

6 kyu

Who likes it? ✓

☆ 4870

👤 916

📈 86% of 26,791

👥 113,713 of 321,823

👤 BattleRattle

Instructions

Output

Past Solutions

Time: 508ms

Passed: 45

Failed: 0

Test Results:

Basic tests

> likes([])

> likes(['Peter'])

> likes(['Jacob', 'Alex'])

> likes(['Max', 'John', 'Mark'])

> likes(['Alex', 'Jacob', 'Mark', 'Max'])

Completed in 0.21ms

Random tests

> likes(['Sylvia Stingray', 'Linna Yamazaki', 'Sylvie', 'Brian J. Mason', 'Galatea', 'Priscilla S. Asagiri', 'Quincy Rosenkreutz', 'Daley Wong', 'Nigel', 'Macky Stingray', 'Anri', 'Largo'])

> likes(['Leon McNichol', 'Nene Romanova'])

> likes(['Anri', 'Galatea', 'Nigel'])

> likes(['Brian J. Mason', 'Quincy Rosenkreutz', 'Linna Yamazaki', 'Daley Wong', 'Leon McNichol', 'Anri'])

> likes([])

> likes(['Anri', 'Linna Yamazaki', 'Daley Wong', 'Nene Romanova'])

> likes(['Leon McNichol', 'Brian J. Mason', 'Quincy Rosenkreutz', 'Sylvia Stingray', 'Macky Stingray', 'Nigel', 'Linna Yamazaki', 'Largo', 'Anri', 'Galatea', 'Nene Romanova', 'Daley Wong'])

> likes(['Nene Romanova', 'Brian J. Mason'])

Digital root is the recursive sum of all the digits in a number.
Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced. The input will be a non-negative integer.

```
def digital_root(n):  
    """  
    Calculate the digital root of a  
    number.  
  
    Args:  
        n (int): A non-negative integer.  
  
    Returns:  
        int: The digital root of the  
        number.  
    """  
    while n > 9:  
        n = sum(int(digit) for digit in  
str(n))  
    return n
```

6 kyu Sum of Digits / Digital Root ✓

☆ 4353 🌟 833 🔄 90% of 23,815 🏆 91,148 of 260,076 👤 user578387 🚩 2 Issues Reported

Instructions Output Past Solutions

Time: 472ms Passed: 119 Failed: 0

Test Results:

Sum of Digits / Digital Root

- Basic Test Cases (10 of 10 Assertions)
- Single digit tests (9 of 9 Assertions)
- Random tests (100 of 100 Assertions)

Completed in 4.89ms

You have passed all of the tests! :)

Your task is to sort a given string. Each word in the string will contain a single number. This number is the position the word should have in the result.

Note: Numbers can be from 1 to 9. So 1 will be the first word (not 0).

If the input string is empty, return an empty string. The words in the input String will only contain valid consecutive numbers.

```
def order_words(s):  
    """  
    Sort a string based on the  
    numbers in each word.  
  
    Args:  
        s (str): The input string.  
  
    Returns:  
        str: The sorted string.  
    """  
    if not s:  
        return ""  
    words = s.split()  
    sorted_words = [""] * len(words)  
    for word in words:  
        for char in word:  
            if char.isdigit():  
                sorted_words[int(char) -  
1] = word  
                break  
    return " ".join(sorted_words)
```

kyu

Your order, please ✓

☆ 3771 ⚙ 827 🔄 91% of 14,051 📊 60,832 of 157,981 👤 iamstone

Instructions Output Past Solutions

Time: 439ms Passed: 55 Failed: 0

Test Results:

▼ Your order, please

➤ Basic Tests (5 of 5 Assertions)

Completed in 0.14ms

▼ Random tests

➤ Testing: "in6 lleave case3 2next 4one s5ee get7"

➤ Testing: ""

➤ Testing: "thei2r we4ek woma3n o5f 1her"

➤ Testing: "littl4e g3reat han2d point1"

➤ Testing: "woman3 th2ey an1d"

➤ Testing: "compan4y 1the f2or publi3c"

➤ Testing: "woul2d thin7g woman4 a1 little6 8her you3 as5"

➤ Testing: ""

➤ Testing: "say5 b6ig 3child 7an larg4e di2fferent by1"

➤ Testing: "l2n the1"

➤ Testing: "bu3t 4good pub5lic n2ew ther1e"

➤ Testing: "earl4y her3 2seem o1n 5use"

➤ Testing: "te5ll 4to wo1rld 3work time2"

Given an array of ones and zeroes, convert the equivalent binary value to an integer.
Eg: [0, 0, 0, 1] is treated as 0001 which is the binary representation of 1.

```
def binary_array_to_number(arr):  
    """  
    Convert an array of binary digits  
    to an integer.  
  
    Args:  
        arr (list): A list of binary digits  
        (0s and 1s).  
  
    Returns:  
        int: The equivalent integer  
        value.  
    """  
    return int("".join(map(str, arr)),  
2)
```

7kyu

Ones and Zeros ✓

☆ 1496

👤 395

📈 90% of 11,164

👥 49,201 of 136,081

👤 user4386369

🚩 1 Issue Reported

Instructions

Output

Past Solutions

Time: 695ms

Passed: 54

Failed: 0

Test Results:

Fixed Tests

> Basic Test Cases (4 of 4 Assertions)

> Random tests (50 of 50 Assertions)

Completed in 1.22ms

You have passed all of the tests! :)

The rgb function is incomplete. Complete it so that passing in RGB decimal values will result in a hexadecimal representation being returned. Valid decimal values for RGB are 0 - 255. Any values that fall out of that range must be rounded to the closest valid value.

Note: Your answer should always be 6 characters long, the shorthand with 3 will not work here.

```
def rgb(r, g, b):  
    """  
    Convert RGB decimal values to a  
    hexadecimal representation.  
  
    Args:  
        r (int): The red value (0-255).  
        g (int): The green value (0-  
        255).  
        b (int): The blue value (0-255).  
  
    Returns:  
        str: The hexadecimal  
        representation of the RGB values.  
    """  
  
    # Ensure values are within the  
    valid range (0-255)  
    r = min(max(r, 0), 255)  
    g = min(max(g, 0), 255)  
    b = min(max(b, 0), 255)  
  
    # Convert decimal values to  
    hexadecimal  
    hex_r = "{:02x}".format(r)  
    hex_g = "{:02x}".format(g)  
    hex_b = "{:02x}".format(b)  
  
    # Return the hexadecimal  
    representation  
    return "#" + hex_r + hex_g +  
    hex_b
```

5 kyu RGB To Hex Conversion ✓

☆ 2331 🌟 547 🔄 89% of 8,961 🗳️ 45,151 of 123,812 👤 jhoffner

Instructions **Output** Past Solutions

Time: 484ms Passed: 0 Failed: 105 Exit Code: 1

Test Results:

Fixed Tests

Tests

- 🔴 testing zero values: '#000000' should equal '000000'
- 🔴 testing near zero values: '#010203' should equal '010203'
- 🔴 testing max values: '#ffffff' should equal 'FFFFFF'
- 🔴 testing near max values: '#fefdfc' should equal 'FEFDFC'
- 🔴 testing out of range values: '#00ff7d' should equal '00FF7D'

Completed in 0.07ms

Completed in 0.11ms

Random Tests

Tests

- 🔴 Testing random values: 232 ,189 ,-20: '#e8bd00' should equal 'E8BD00'
- 🔴 Testing random values: 184 ,14 ,-66: '#b80e00' should equal 'B80E00'
- 🔴 Testing random values: 250 ,277 ,209: '#faffd1' should equal 'FAFFD1'
- 🔴 Testing random values: 2 ,36 ,106: '#02246a' should equal '02246A'
- 🔴 Testing random values: -121 ,-70 ,6: '#000006' should equal '000006'
- 🔴 Testing random values: -78 ,302 ,223: '#00ffdf' should equal '00FFDF'
- 🔴 Testing random values: 78 ,-192 ,83: '#4e0053' should equal '4E0053'

Write an algorithm that takes an array and moves all of the zeros to the end, preserving the order of the other elements.

```
def move_zeros_to_end(arr):  
    """  
    Move all zeros to the end of an  
    array, preserving the order of other  
    elements.  
  
    Args:  
        arr (list): The input array.  
  
    Returns:  
        list: The modified array with  
        zeros moved to the end.  
    """  
    # Separate the array into two  
    lists: non-zeros and zeros  
    non_zeros = [x for x in arr if x !=  
0]  
    zeros = [x for x in arr if x == 0]  
  
    # Combine the non-zeros and  
    zeros lists  
    return non_zeros + zeros
```

5 kyu Moving Zeros To The End ✓

☆ 2108 🏆 533 📈 89% of 11,875 🌐 72,325 of 167,010 👤 xcthuhu 🚩 11 Issues Reported

Instructions Output Past Solutions

Time: 508ms Passed: 171 Failed: 0

Test Results:

Fixed Tests

> Basic Test Cases (5 of 5 Assertions)

Completed in 0.17ms

Random Tests

> move_zeros([0, 2, 1, 0])

> move_zeros([0, 0, 0, 0, 0, 0, 0, 0])

> move_zeros([2, 0, 0])

> move_zeros([0, 0, 0, 0, 0])

> move_zeros([0, 0, 0, 0, 0, 0])

> move_zeros([2, 2, 1])

> move_zeros([1, 2, 1, 0])

> move_zeros([2])

> move_zeros([2, 3, 4, 9, 3])

> move_zeros([2, 0, 1, 1])

> move_zeros([1, 2])

> move_zeros([2, 0, 0, 0, 1, 7, 0, 0, 0, 0])

> move_zeros([1, 0, 2, 0])

The goal of this exercise is to convert a string to a new string where each character in the new string is "(" if that character appears only once in the original string, or ")" if that character appears more than once in the original string. Ignore capitalization when determining if a character is a duplicate.

```
def duplicate_encode(word):  
    """  
    Convert a string to a new string  
    where each character is "(" if it  
    appears only once,  
    or ")" if it appears more than  
    once.  
  
    Args:  
        word (str): The input string.  
  
    Returns:  
        str: The modified string with  
        "(" and ")" characters.  
    """  
    word = word.lower()  
    count_dict = {}  
    for char in word:  
        if char in count_dict:  
            count_dict[char] += 1  
        else:  
            count_dict[char] = 1  
    result = ""  
    for char in word:  
        if count_dict[char] == 1:  
            result += "("  
        else:  
            result += ")"  
    return result
```

6 kyu

Duplicate Encoder ✓

☆ 3943 ⚙ 699 🔄 90% of 18,833 🕒 79,537 of 207,841 👤 obnounce 🚩 3 Issues Reported

Instructions Output Past Solutions

Time: 502ms Passed: 48 Failed: 0

Test Results:

▼ Duplicate Encoder

> Basic Test Cases (6 of 6 Assertions)

> Tests with '(' and ')' (2 of 2 Assertions)

> And now... some random tests ! (40 of 40 Assertions)

Completed in 5.56ms

You have passed all of the tests! :)

Write a method that takes an array of consecutive (increasing) letters as input and that returns the missing letter in the array. You will always get an valid array. And it will be always exactly one letter be missing. The length of the array will always be at least 2. The array will always contain letters in only one case.

```
def find_missing_letter(chars):  
    """  
    Find the missing letter in an array  
    of consecutive letters.  
  
    Args:  
        chars (list): The input array of  
        consecutive letters.  
  
    Returns:  
        str: The missing letter.  
    """  
    for i in range(len(chars) - 1):  
        if ord(chars[i + 1]) -  
ord(chars[i]) > 1:  
            return chr(ord(chars[i]) + 1)
```

6 kyu Find the missing letter ✓

☆ 1533 🗳 317 📈 90% of 9,225 🌐 30,671 of 91,862 👤 user5036852 ⚠ 5 Issues Reported

Instructions Output Past Solutions

Time: 507ms Passed: 33 Failed: 0

Test Results:

▼ Kata Tests

➤ Fixed Tests (3 of 3 Assertions)

➤ Random Tests (30 of 30 Assertions)

Completed in 0.91ms

You have passed all of the tests! :)

Given an $n \times n$ array, return the array elements arranged from outermost elements to the middle element, traveling clockwise.

```
def arrange_clockwise(arr):  
    """  
    Arrange the array elements from  
    outermost to the middle element,  
    traveling clockwise.  
  
    Args:  
        arr (list): The input 2D array.  
  
    Returns:  
        list: The arranged array  
        elements.  
    """  
    result = []  
    while arr:  
        # Append the first row  
        result += arr.pop(0)  
        # Append the last column  
        if arr and arr[0]:  
            for row in arr:  
                result.append(row.pop())  
        # Append the last row in  
        reverse order  
        if arr:  
            result += arr.pop()[::-1]  
        # Append the first column in  
        reverse order  
        if arr and arr[0]:  
            for row in arr[::-1]:  
                result.append(row.pop(0))  
    return result
```

4 kyu

Snail ✓

☆ 5894 🏆 1158 🔄 94% of 7,947 🌐 28,015 of 71,257 👤 stevenbarragan ⚠️ 9 Issues Reported

Instructions Output Past Solutions

Time: 493ms Passed: 105 Failed: 0

Test Results:

Fixed tests

Tests (5 of 5 Assertions)

Completed In 0.19ms

Random tests

Tests (100 of 100 Assertions)

Completed In 23.78ms

You have passed all of the tests! :)

Define a function that takes in two non-negative integers a and b and returns the last decimal digit of a^b . Note that a and b may be very large! For example, the last decimal digit of 9797 is 99, since $97^{97} = 478296997 = 4782969$. The last decimal digit of $(2200)2300(2200)2300$, which has over 10921092 decimal digits, is 66. Also, please take 0000 to be 11. You may assume that the input will always be valid.

```
def last_decimal_digit(a, b):
    """
    Return the last decimal digit of
    a^b.

    Args:
        a (int): The base number.
        b (int): The exponent.

    Returns:
        int: The last decimal digit of
        a^b.
    """
    # Calculate the last decimal digit
    using modular arithmetic
    return pow(a, b, 10)
```

5 kyu

Last digit of a large number ✓

☆ 1335

🔗 271

👤 88% of 2,299

🌐 13,521 of 23,643

👤 dburgoyne

🚩 2 Issues Reported

Instructions

Output

Past Solutions

Time: 478ms

Passed: 66

Failed: 0

Test Results:

Example test cases

Fixed tests (7 of 7 Assertions)

Testing x^{**0} , must return 1 (9 of 9 Assertions)

Completed in 0.27ms

Random test cases

Testing random x^{**0} , must return 1 (8 of 8 Assertions)

Random long numbers (42 of 42 Assertions)

Completed in 14.35ms

You have passed all of the tests! :)

Write a function that when given a URL as a string, parses out just the domain name and returns it as a string.

```
import urllib.parse

def extract_domain(url):
    """
    Extract the domain name from a URL.

    Args:
        url (str): The input URL.

    Returns:
        str: The domain name.
    """
    parsed_uri =
urllib.parse.urlparse(url)
    domain =
'{uri.netloc}'.format(uri=parsed_uri)
    return domain
```

5 kyu Extract the domain name from a URL ✓

☆ 2453 🌟 535 📈 83% of 5,936 📊 36,797 of 73,924 👤 xianpants 🚩 13 Issues Reported

Instructions Output Past Solutions

Time: 550ms Passed: 0 Failed: 50 Exit Code: 1

Test Results:

Fixed Tests

Basic Test Cases

- ❌ 'google.com' should equal 'google'
- ❌ 'google.co.jp' should equal 'google'
- ❌ '123.net' should equal '123'
- ❌ 'hyphen-site.org' should equal 'hyphen-site'
- ❌ 'codewars.com' should equal 'codewars'
- ❌ '' should equal 'xakep'
- ❌ 'youtube.com' should equal 'youtube'
- ❌ 'www.codewars.com' should equal 'codewars'
- ❌ '' should equal 'icann'

Completed in 0.23ms

Completed in 0.26ms

Random Tests

Testing for 'https://6vjlp5xjwmql1exi95sbi9g.biz/'

- ❌ '6vjlp5xjwmql1exi95sbi9g.biz' should equal '6vjlp5xjwmql1exi95sbi9g'

Completed in 0.05ms

Testing for 'http://5m066u1r2g84nhu21a54y7i.biz/users'

Write two functions that convert a roman numeral to and from an integer value. Multiple roman numeral values will be tested for each function.

Modern Roman numerals are written by expressing each digit separately starting with the left most digit and skipping any digit with a value of zero. In Roman numerals:

1990 is

rendered: 1000=M, 900=CM, 90=XC;

resulting in MCMXC

2008 is written as 2000=MM, 8=VIII;
or MMVIII

1666 uses each Roman symbol in descending order: MDCLXVI.

Input range : $1 \leq n < 4000$

In this kata 4 should be represented as IV,
NOT as IIII (the "watchmaker's four").

```
def roman_to_int(s):
    roman_numerals = {'I': 1, 'V': 5,
                      'X': 10, 'L': 50, 'C': 100, 'D': 500, 'M': 1000}
    int_val = 0
    for i in range(len(s)):
        if i > 0 and
        roman_numerals[s[i]] >
        roman_numerals[s[i - 1]]:
            int_val +=
            roman_numerals[s[i]] - 2 *
            roman_numerals[s[i - 1]]
        else:
            int_val +=
            roman_numerals[s[i]]
    return int_val
```

```
def int_to_roman(num):
    val = [
        1000, 900, 500, 400,
        100, 90, 50, 40,
        10, 9, 5, 4,
        1
    ]
    syb = [
        "M", "CM", "D", "CD",
        "C", "XC", "L", "XL",
        "X", "IX", "V", "IV",
        "I"
    ]
    roman_num = ""
    i = 0
    while num > 0:
        for _ in range(num // val[i]):
            roman_num += syb[i]
            num -= val[i]
        i += 1
```

4 kyu

Roman Numerals Helper ✓

☆ 2554

👤 451

👁 90% of 2,670

🏆 11,236 of 27,418

👤 jhoffner

Instructions

Output

Past Solutions

Time: 445ms

Passed: 610

Failed: 0

Test Results:

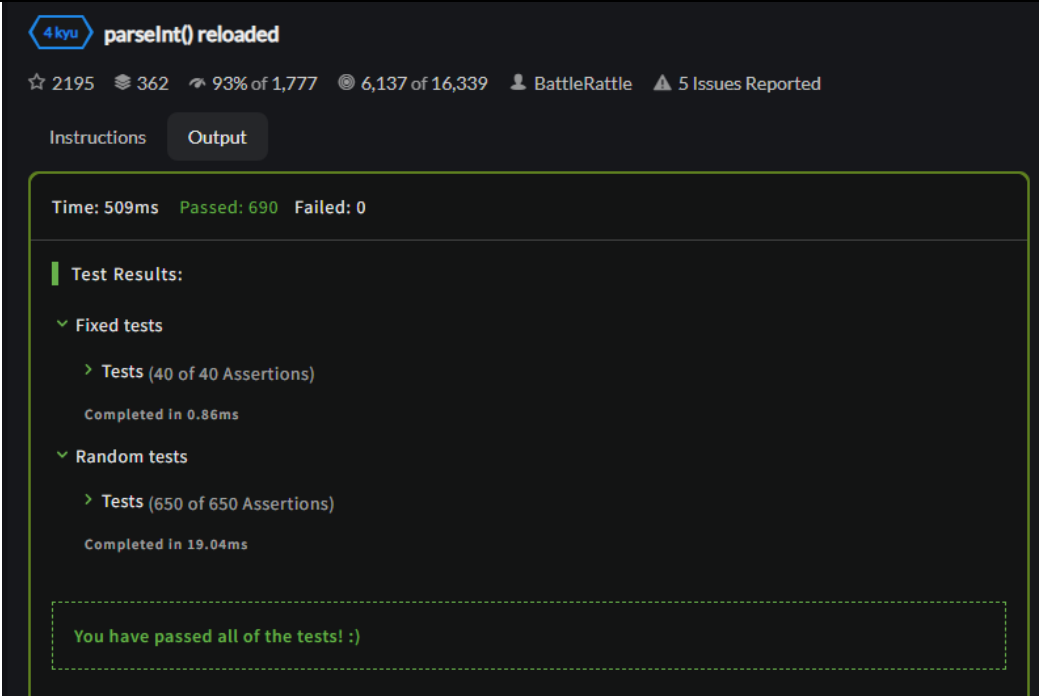
▼ tests

> fixed tests

> random tests

Completed in 14.32ms

You have passed all of the tests! :)

<p>In this kata we want to convert a string into an integer. The strings simply represent the numbers in words.</p> <p>Examples:</p> <p>"one" => 1</p> <p>"twenty" => 20</p> <p>"two hundred forty-six" => 246</p> <p>"seven hundred eighty-three thousand nine hundred and nineteen" => 783919</p> <p>Additional Notes:</p> <p>The minimum number is "zero" (inclusively)</p> <p>The maximum number, which must be supported is 1 million (inclusively)</p> <p>The "and" in e.g. "one hundred and twenty-four" is optional, in some cases it's present and in others it's not</p> <p>All tested numbers are valid, you don't need to validate them</p>	<pre> return roman_num def word_to_num(s): num_dict = { "zero": 0, "one": 1, "two": 2, "three": 3, "four": 4, "five": 5, "six": 6, "seven": 7, "eight": 8, "nine": 9, "ten": 10, "eleven": 11, "twelve": 12, "thirteen": 13, "fourteen": 14, "fifteen": 15, "sixteen": 16, "seventeen": 17, "eighteen": 18, "nineteen": 19, "twenty": 20, "thirty": 30, "forty": 40, "fifty": 50, "sixty": 60, "seventy": 70, "eighty": 80, "ninety": 90, "hundred": 100, "thousand": 1000, "million": 1000000 } s = s.replace("-", " ") s = s.replace(" and ", " ") words = s.split() num = 0 temp = 0 for word in words: if word in num_dict: if word == "hundred": temp *= num_dict[word] elif word == "thousand" or word == "million": num += temp * num_dict[word] temp = 0 else: temp += num_dict[word] num += temp return num </pre>	
---	--	---

Your task in order to complete this Kata is to write a function which formats a duration, given as a number of seconds, in a human-friendly way.

The function must accept a non-negative integer. If it is zero, it just returns "now". Otherwise, the duration is expressed as a combination

of years, days, hours, minutes and seconds. It is much easier to understand with an example:

* For seconds = 62, your function should return

"1 minute and 2 seconds"

* For seconds = 3662, your function should return

"1 hour, 1 minute and 2 seconds"

For the purpose of this Kata, a year is 365 days and a day is 24 hours.

Note that spaces are important.

Detailed rules

The resulting expression is made of components like 4 seconds, 1 year, etc. In general, a positive integer and one of the valid units of time, separated by a space. The unit of time is used in plural if the integer is greater than 1.

The components are separated by a comma and a space (" , "). Except the last

```
def format_duration(seconds):
    if seconds == 0:
        return "now"
    components = []
    years, seconds = divmod(seconds, 31536000)
    if years > 0:
        components.append("{}
year{}".format(years, "" if years == 1 else "s"))
    days, seconds = divmod(seconds, 86400)
    if days > 0:
        components.append("{}
day{}".format(days, "" if days == 1 else "s"))
    hours, seconds = divmod(seconds, 3600)
    if hours > 0:
        components.append("{}
hour{}".format(hours, "" if hours == 1 else "s"))
    minutes, seconds = divmod(seconds, 60)
    if minutes > 0:
        components.append("{}
minute{}".format(minutes, "" if minutes == 1 else "s"))
    if seconds > 0:
        components.append("{}
second{}".format(seconds, "" if seconds == 1 else "s"))
    if len(components) == 1:
        return components[0]
    last_component = components.pop()
```

4 kyu

Human readable duration format

☆ 3779 🏆 769 🔄 92% of 7,462 🌐 27,478 of 77,375 👤 davazp 🚩 4 Issues Reported

Instructions Output Past Solutions

Time: 532ms Passed: 113 Failed: 0

Test Results:

Fixed Tests

Basic Test Cases (13 of 13 Assertions)

Completed in 0.31ms

Random Tests

seconds = 5641275

seconds = 1611139

seconds = 9373332

seconds = 743870

seconds = 6512785

seconds = 9135868

seconds = 7866915

seconds = 8191298

seconds = 4973954

seconds = 525033

seconds = 5030266

seconds = 4662027

seconds = 6803503

<p>component, which is separated by " and ", just like it would be written in English.</p> <p>A more significant units of time will occur before than a least significant one. Therefore, 1 second and 1 year is not correct, but 1 year and 1 second is.</p> <p>Different components have different unit of times. So there is not repeated units like in 5 seconds and 1 second.</p> <p>A component will not appear at all if its value happens to be zero. Hence, 1 minute and 0 seconds is not valid, but it should be just 1 minute.</p> <p>A unit of time must be used "as much as possible". It means that the function should not return 61 seconds, but 1 minute and 1 second instead. Formally, the duration specified by of a component must not be greater than any valid more significant unit of time.</p>	<pre>return ", ".join(components) + " and " + last_component</pre>	
--	--	--