

Python Interview Questions And Answers For Beginners

Source: Finxter

Question	Code	Question	Code
Check if list contains integer x	<pre>l = [3, 3, 4, 5, 2, 111, 5] print(111 in l) # True</pre>	Get missing number in [1...1000]	<pre>def get_missing_number(list): return set(range(list[len(list)-1])(1:)) - set(l) l = list(range(1,1000)) l.remove(50) print(get_missing_number(l)) # 50</pre>
Find duplicate number in integer list	<pre>def find_duplicates(elements): duplicates, seen = set(), set() for element in elements: if element in seen: duplicates.add(element) seen.add(element) return list(duplicates)</pre>	Compute the intersection of two lists	<pre>def intersect(list1, list2): res, list2_copy = [], list2[:] for el in list1: if el in list2_copy: res.append(el) list2_copy.remove(el) return res</pre>
Check if two strings are anagrams	<pre>def is_anagram(s1, s2): return set(s1) == set(s2) print(is_anagram("elvis", "lives")) # True</pre>	Find max and min in unsorted list	<pre>l = [4, 3, 6, 9, 4, 888, 1, -11, 22, 3] print(max(l)) # 888 print(min(l)) # -11</pre>
Remove all duplicates from list	<pre>l = list(range(10)) + list(range(10)) l = list(set(l)) print(l) # [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]</pre>	Reverse string using recursion	<pre>def reverse(string): if len(string)<=1: return string return reverse(string[1:])+string[0] print(reverse("hello")) # olleh</pre>
Find pairs of integers in list so that their sum is equal to integer x	<pre>def find_pairs(l, x): pairs = [] for (i, el_1) in enumerate(l): for (j, el_2) in enumerate(l[i+1:]): if el_1 + el_2 == x: pairs.append((el_1, el_2)) return pairs</pre>	Compute the first n Fibonacci numbers	<pre>a, b = 0, 1 n = 10 for i in range(n): print(a) a, b = b, a+b # 1, 1, 2, 3, 5, 8, ...</pre>
Check if a string is a palindrome	<pre>def is_palindrome(phrase): return phrase == phrase[::-1] print(is_palindrome("anna")) # True</pre>	Sort list with Quicksort algorithm	<pre>def qsort(l): if l == []: return [] return qsort([x for x in l[1:] if x<=l[0]]) + l[0:1] + qsort([x for x in l[1:] if x>l[0]]) l = [44, 33, 22, 9, 77, 55, 999] print(qsort(l)) # [9, 22, 33, 44, 55, 77, 999]</pre>
Use list as stack, array, and queue	<pre># as a list ... l = [3, 4] l += [5, 6] # l = [3, 4, 5, 6] # ... as a stack ... l.append(10) # l = [4, 5, 6, 10] l.pop() # l = [4, 5, 6] # ... and as a queue l.insert(0, 5) # l = [5, 4, 5, 6] l.pop() # l = [5, 4, 5]</pre>	Find all permutations of string	<pre>def get_permutations(w): if len(w)<=1: return set(w) smaller = get_permutations(w[1:]) perms = set() for x in smaller: for pos in range(0,len(x)+1): perm = x[:pos] + w[0] + x[pos:] perms.add(perm) return perms print(get_permutations("nan")) # ('na', 'an', 'nan')</pre>

Python Questions And Answers

SARFUL. HASSAN



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Python Interview Questions & Answers: Python Programming Bandana Ojha,2018-04-11 The authors of this book conducted so many interviews at various companies and meticulously collected the most effective python interview questions and answers with simple straightforward explanations Rather than going through comprehensive textbook sized python reference guides this book includes only the information required immediately for python programming to start their career in information Technology industry Answers of all the questions are short and to the point We assure that you will get here the 90% frequently asked interview questions and answers

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Trends and Advances in Information Systems and Technologies Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2018-03-24 This book includes a selection of papers from the 2018 World Conference on Information Systems and Technologies WorldCIST 18 held in Naples Italy on March27 29 2018 WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and the challenges of modern information systems and technologies research together with their technological development and applications The main topics covered are A Information and

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Python Interview Questions and Answers - English Navneet Singh, Here are some common Python interview questions along with their answers

What is Python Python is a high level interpreted programming language known for its simplicity and readability It supports multiple programming paradigms including procedural object oriented and functional programming

What are the key features of Python Key features of Python include Simple and easy to read syntax Dynamic typing and automatic memory management Extensive standard library Support for multiple programming paradigms High level data structures Portable and extensible

What is PEP 8 PEP 8 is the Python Enhancement Proposal that provides guidelines for writing Python code to improve its readability and maintainability It covers topics such as naming conventions code layout and programming practices

What are the differences between Python 2 and Python 3 Python 3 is the successor of Python 2 and includes several improvements and backwards incompatible changes Some key differences include

Print statement In Python 2 it's a statement `print Hello` while in Python 3 it's a function `print Hello`

Unicode support Python 3 handles strings as Unicode by default whereas Python 2 treats them as ASCII by default

Division operator In Python 2 division of integers results in an integer while in Python 3 it results in a float

xrange Python 2 has `xrange` for creating iterators while Python 3 uses `range` to achieve the same

What is a virtual environment in Python A virtual environment is a self contained directory that contains a Python installation for a particular version of Python plus several additional packages It allows you to work on a specific project without affecting the system wide Python installation or other projects

Explain the difference between list and tuple in Python Lists are mutable meaning their elements can be modified after creation Tuples on the other hand are immutable Lists are created using square brackets while tuples are created using parentheses Lists have more built in methods for manipulation while tuples have fewer methods due to their immutability

What is the difference between `is` and `==` in Python `is` checks for equality of values meaning it compares whether the values of two objects are the same `==` checks for identity meaning it compares whether two objects refer to the same memory location

What is a decorator in Python A decorator is a design pattern in Python that allows behaviour to be added to functions or classes dynamically Decorators are written using the `decorator_name` syntax and are applied using the symbol followed by the decorator name above the function definition

Explain the concept of list comprehension in Python List comprehension is a concise way to create lists in Python It consists of an expression followed by a `for` clause then zero or more `for` or `if` clauses It allows you to create a new list by applying an expression to each item in an iterable

What is the difference between `append` and `extend` methods in Python lists The `append` method adds its argument as a single element to the end of a list The `extend`

method takes an alterable such as a list and adds each element of the alterable to the list These questions cover a range of topics commonly discussed in Python interviews from basic syntax to more advanced concepts [Analysis of Images, Social Networks and Texts](#) Alexander Panchenko, Dmitry Gubanov, Michael Khachay, Andrey Kutuzov, Natalia Loukachevitch, Andrey Kuznetsov, Irina Nikishina, Maxim Panov, Panos M. Pardalos, Andrey V. Savchenko, Evgenii Tsymbalov, Elena Tutubalina, Aida Kasieva, Dmitry I. Ignatov, 2025-07-02 This book constitutes the refereed proceedings of the 12th International Conference on Analysis of Images Social Networks and Texts AIST 2024 held in Bishkek Kyrgyzstan during October 17 19 2024 The 12 papers included in this book were carefully reviewed and selected from 54 submissions They were organized in topical sections as follows natural language processing computer vision and data analysis and machine learning **CCNP and CCIE Enterprise Core ENCOR 350-401 Exam Cram** Donald Bacha, 2022-03-25 CCNP and CCIE Enterprise Core ENCOR 350 401 Exam Cram is the perfect study guide to help you pass the updated ENCOR 350 401 exam a core requirement for your CCNP Enterprise CCIE Enterprise Infrastructure or CCIE Enterprise Wireless certification It delivers expert coverage and practice questions for every exam topic including implementation of core enterprise network technologies involving dual stack IPv4 and IPv6 architecture virtualization infrastructure network assurance security and automation Its comprehensive proven preparation tools include Exam objective mapping to help you focus your study A self assessment section for evaluating your motivations and readiness Concise easy to read exam topic overviews Exam Alerts highlighting key concepts Bullet lists and summaries for easy review CramSavers CramQuizzes and chapter ending practice questions to help you assess your understanding Notes indicating areas of concern or specialty training Tips to help you build a better foundation of knowledge An extensive Glossary of terms and acronyms The popular CramSheet tear out collecting the most difficult to remember facts and numbers you should memorize before taking the test CCNP and CCIE Enterprise Core ENCOR 350 401 helps you master all key ENCOR Exam 350 401 topics Understand Cisco infrastructure including Layer 2 Layer 3 IGP and BGP IP services and enterprise wireless Secure enterprise networks by safeguarding device access network access infrastructure REST APIs wireless systems and designing network security Automate networks with Python JSON YANG data models DNA Center vManage REST APIs EEM applets configuration management and orchestration Master enterprise network design architecture deploy WLANs compare on prem and cloud infrastructure implement SD WAN SD Access QoS and switching Use basic virtualization virtual pathing and virtual network extensions Perform network assurance tasks troubleshoot and monitor networks work with IP SLA DNA Center NETCONF and RESTCONF This eBook edition of CCNP and CCIE Enterprise Core ENCOR 350 401 Exam Cram does not include access to the companion website with practice exams included with the print or Premium edition **Python Programming** George A. Duckett, 2016-07-18 If you have a question about Python this is the book with the answers Python Programming Questions and Answers takes some of the best questions and answers asked on the stackoverflow com website You can use this book to look up commonly asked questions

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Historic Magazine and Notes and Queries ,1901 List of bibliographies and trans in v 1
12 **Notes and Queries and Historic Magazine** ,1901 *Python Threading Interview Questions* Jason

Brownlee,2022-08-03 How well do you know Python threads The threading module provides thread based concurrency in Python and few developers know about it let alone how to use it well The main reason is because it is wily thought that Python does not support threads because of the Global Interpreter Lock GIL This is false In fact threads remain the best approach to achieve concurrency for IO bound tasks Do you know how to start a thread Do you know how to use mutex locks with Python threads Do you know how to identify a race condition Discover 120 interview questions on Python threading Study the questions and answers and improve your skill Test yourself to see what you really know and what you don t Select questions to interview developers on a new role Prepare for an interview or test your Python threading skills today

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Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Python Questions And Answers**

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web and now that we know what d is we can now solve for a we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out c and c^{-1} so c remember c is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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