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Python set difference between lists

There are various ways in which the difference between two lists can be generated. In this article, we will see the two most important ways in which this can be done. One by using the set() method, and another by not using it. Examples: Input : list1 = [10, 15, 20, 25, 30, 35, 40] list2 = [25, 40, 35] Output : [10, 20, 30, 15] Explanation: resultant list = list1 - list2 Note: When you have multiple same elements then this would not work. In that case, this code will simply remove the same elements.In that case, you can maintain a count of each element in both lists.By the use of set(): In this method, we convert the lists into sets explicitly and then simply reduce one from the other using the subtract operator. For more reference on set visit Sets in Python. Example: def Diff(l1, l2): return list(set(l1) - set(l2)) + list(set(l2) - set(l1))l1 = [10, 15, 20, 25, 30, 35, 40]l2 = [25, 40, 35]print(Diff(l1, l2))Output : [10, 20, 30, 15]Without using the set(): In this method, we use the basic combination technique to copy elements from both the list with a regular check if one is present in the other or not. Example: def Diff(l1, l2): l1_diff = [i for i in l1 + l2 if i not in l1 or i not in l2] return l1_diff l1 = [10, 15, 20, 25, 30, 35, 40]l2 = [25, 40, 35]l3 = Diff(l1, l2)print(l3)Output : [10, 20, 30, 15] List: Lists are just like dynamic sized arrays, declared in other languages (vector in C++ and ArrayList in Java). Lists need not be homogeneous always which makes it the most powerful tool in Python. The main characteristics of lists are - The list is a datatype available in Python which can be written as a list of comma-separated values (items) between square brackets.List are mutable .i.e it can be converted into another data type and can store any data element in it.List can store any type of element.Example:List = []print("Blank List. ")print(List)List = [10, 20, 14]print("List of numbers: ")print(List)List = ["Geeks", "For", "Geeks"]print("List Items: ")print(List[0]) print(List[2])Output:Blank List: [] List of numbers: [10, 20, 14] List Items: Geeks GeeksTuple: Tuple is a collection of Python objects much like a list. The sequence of values stored in a tuple can be of any type, and they are indexed by integers. Values of a tuple are syntactically separated by 'commas'. Although it is not necessary, it is more common to define a tuple by closing the sequence of values in parentheses. The main characteristics of tuples are - Tuple is an immutable sequence in python.It cannot be changed or replaced since it is immutable.It is defined under parenthesis().Tuples can store any type of element.Example:Tuple1 = ()print("Initial empty Tuple. ")print (Tuple1)list1 = [1, 2, 4, 5, 6]print("Tuple using List: ")print(tuple(list1))Tuple1 = tuple('Geeks')print("Tuple with the use of function: ")print(Tuple1)Output:Initial empty Tuple: () Tuple using List: (1, 2, 4, 5, 6) Tuple with the use of function: ('G', 'e', 'e', 'k', 's')Set: In Python, Set is an unordered collection of data type that is iterable, mutable, and has no duplicate elements. The major advantage of using a set, as opposed to a list, is that it has a highly optimized method for checking whether a specific element is contained in the set. The main characteristics of set are -Sets are an unordered collection of elements or unintended collection of items In python.Here the order in which the elements are added into the set is not fixed, it can change frequently.It is defined under curly braces {} Sets are mutable, however, only immutable objects can be stored in it.Example:set1 = set()print("Initial blank Set: ")print(set1)String = 'GeeksForGeeks'set1 = set(String)print("Set with the use of an Object. ")print(set1)set1 = set('Geeks', 'For', 'Geeks')print("Set with the use of List: ")print(set1)Output:Initial blank Set: set() Set with the use of an Object: {'G', 's', 'e', 'o', 'r', 'F', 'k'} Set with the use of List: {'Geeks', 'For'}Table of Difference between List, Set, and TupleList/Set/TupleLists is Mutable/Set is Mutable/Tuple is ImmutableIt is Ordered collection of items/It is Unordered collection of items/It is Ordered collection of itemsItems in list can be replaced or changed/items in set cannot be changed or replaced/items in tuple cannot be changed or replaced A raffle is an easy way to raise money for a good cause and it's inexpensive. Raffles are fun for those who participate, as they hope to be a winner. It doesn't take much to put it together. You'll need a plan, tickets, prizes and a committee to help.CommitteeA committee of volunteers distributes the work involved. Choose who you want to be involved if you have the option. That way you can select vital workers who can get the job done without hassle. Gather them together for a meeting to plan the raffle a few weeks before the event. Volunteer responsibilities include selling tickets, asking for donated prize items and announcing the winners.GoalsYou and your committee set goals for how much you hope to raise. Set a budget. Determine how much to charge for your raffle tickets. You can offer single ticket prices and discounted prices for buying multiple tickets. Discounting multiple tickets encourages buyers to spend a little more. If you can't get all the prizes donated, plan on budgeted amounts for purchasing a few big-ticket items to entice ticket sales.Raffle TicketsBuy ready-made rolls of tickets that are perforated. You keep a half of each ticket and the buyer gets the other half. Each half has matching numbers. On the back of tickets, there's a place to write a name and address. This will be helpful if the winner isn't at the event when the announcements are made. Or make your own raffle tickets to save a little money. Create raffle tickets in Word and print them at home. Once you've printed the tickets, determine your target market and start selling.PrizesPrizes are key to a successful raffle. They're the dangling carrot that gets the buyer interested. Small items like gift certificates to local stores or restaurants are popular. Add adorned baskets of exercise equipment, cooking supplies, beauty products and beach items. Having a very bigger items like a bike, golf bag or a beach umbrella to stand out at the event.TipsThere are a few tips to note about raffles. First, be sure raffles are legal in your county and state, as laws on raffles vary by state. Second, talk with others in your area who have held raffles before to get an idea of price points. Too high and you'll lose raffle ticket buyers. Last, but not least, plan a time for announcing the winners and enjoy the reactions of those who get to take prizes home. MORE FROM QUESTIONSANSWERED.NET In this tutorial, we'll discover two Pythonic ways to find the Difference Between Two Lists. One of the methods is using the Python Set. It first converts the lists into sets and then gets the unique part out of that. Other non-set methods compare two lists element by element and collect the unique ones. We can implement these by using nested for loops and with the list comprehension. By the way, if you are not aware of the sets in Python, then follow the below tutorial. It would quickly introduce you to how Python implements the mathematical form of Set. Python Set Pythonic Ways to Find the Difference Between Two Lists Python Set seems to be the most obvious choice to identify the common as well as the difference of two lists. So, we are going to explore it first and then will use nested loops and list comprehension. Before we move on to the solution part, let's define the test parameters, i.e., the two lists which we have to find the difference. # Test Input list a = [11, 16, 21, 26, 31, 36, 41] list b = [26, 41, 36] And we want our solution to provide the following output: # Expected Result # list_out = list_a - list_b list_out = [11, 21, 31, 16] Let's start to create a program to find the difference between two lists, first using sets. Use set() to find the difference of two lists. In this approach, we'll first derive two SETs (say set1 and set2) from the LISTS (say list1 and list2) by passing them to set() function. After that, we'll perform the set difference operation. It will return those elements from list1 which don't exist in the second. Here is the sample Python program to get the difference of two lists. """ Desc: Using set() to find the difference between two lists in Python """ def list_diff(list1, list2): return (list(set(list1) - set(list2))) # Test Input list1 = [11, 16, 21, 26, 31, 36, 41] list2 = [26, 41, 36] # Run Test print(list_diff(list1, list2)) After running this, you should see the following outcome: [16, 11, 21, 31] Without set(), using nested loops In this method, we'll use nested For Loop to compare each element of the first list with the second. And while traversing, we'll be appending every non-matching item to a new (and empty) list. The new list would finally include the difference between the two given sequences. Below is the sample program to demonstrate this approach. """ Desc: Nested loop to find the difference between two lists in Python """ def list_diff(list1, list2): out = [] for ele in list1: if not ele in list2: out.append(ele) return out # Test Input list1 = [11, 16, 21, 26, 31, 36, 41] list2 = [26, 41, 36] # Run Test print(list_diff(list1, list2)) After running the above program, you should see the following outcome: [11, 16, 21, 31] Without set(), using list comprehension It is almost a similar technique that we used in the previous one. Here, we replaced the nested loops with the list comprehension syntax. See the example below. """ Desc: List comprehension to find the difference between two lists in Python """ def list_diff(list1, list2): out = [item for item in list1 if not item in list2] return out # Test Input list1 = [11, 16, 21, 26, 31, 36, 41] list2 = [26, 41, 36] # Run Test print(list_diff(list1, list2)) After running the above program, you should see the following outcome: [11, 16, 21, 31] We hope that after wrapping up this tutorial, you should know several ways to check two lists for the difference. However, you may practice more with examples to gain confidence. Also, to learn Python from scratch to depth, do read our step by step Python tutorial.

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