









Solution Review: Check if Lists are Disjoint

This review provides a detailed analysis solution to the Check if Lists are Disjoint Challenge.

We'll cover the following

- Solution: Use a Set
 - Time Complexity

Solution: Use a Set

```
def is_disjoint(list1, list2):
        s = set(list1) # Create set of list1 elements
2
3
        # iterate list 2
        for elem in list2:
            # if element in list1 then return False
            if elem in s:
7
                return False
        # Return True if no common element
8
        return True
9
10
11
12
   list1 = [9, 4, 3, 1, -2, 6, 5]
   list2 = [7, 10, 8]
13
14
   list3 = [1, 12]
   print(is_disjoint(list1, list2))
    print(is_disjoint(list1, list3))
16
17
```



Nothing tricky going on here. The problem is very similar to the previous one. All we have to do is create a set for list1 and as soon as we find value from list2 or list3 in the set, we can conclude that the two lists are not disjoint. Since the set uses a hash table under the hood, the complexity for checking an element to be in the set will be O(1).

Time Complexity#

For a lookup list with m elements and a subset list with n elements, the time complexity is O(m+n).

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Challenge 2: Check if Lists are Disjoint



Challenge 3: Find Symmetric Pairs in a...





