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CS3C

Exercise 7

#Display Array Items

import array

arr = array.array('i', [2, 18, 14])

for element in arr:

print(element)

#Append a new item

arr = array.array('i', [1, 2, 6, 8, 9])

print("Original array:", arr)

arr.append(11)

print("Append 11 at the end of the array:")

print("New array:", arr)

#Reverse the order

arr = array.array('i', [2, 14, 18, 5, 23, 21,])

print("Original array:", arr)

arr.reverse()

print("Reverse the order of the items:")

print(arr)

#Check for Duplicate Elements

def has\_duplicates(arr):

return len(set(arr)) < len(arr)

arr1 = [1, 2, 3, 4, 5]

arr2 = [1, 2, 3, 3, 4, 5]

arr3 = [1, 1, 2, 2, 3, 3]

print(has\_duplicates(arr1))

print(has\_duplicates(arr2))

print(has\_duplicates(arr3))

#Find the First Duplicate Element

def first\_duplicate(arr):

seen = set()

for element in arr:

if element in seen:

return element

seen.add(element)

return -1

arr4 = [1, 2, 3, 4, 4, 5]

arr5 = [1, 2, 3, 4, 5]

arr6 = [5, 4, 3, 1, 1]

print(first\_duplicate(arr4))

print(first\_duplicate(arr5))

print(first\_duplicate(arr6))