1. Find the Missing Number in an Array :

def find\_ missing\_ number (nums):

n = len (nums)

expected\_ sum = (n \* (n + 1)) // 2

actual\_ sum = sum (nums)

return expected\_ sum - actual\_ sum

Example:

arr = [0, 1, 3, 4, 5]

n = 5

expected\_ sum = 5 \* (5 + 1) // 2 = 15

actual\_ sum = 0 + 1 + 3 + 4 + 5 = 13

missing = 15 - 13 = 2

Output:

Missing number – 2

1. Group Anagrams :

from collections import Counter

def first\_ non\_ repeating\_ char(s):

freq = Counter(s)

for char in s:

if freq[char] == 1:

return char

return None

Example

s = "leetcode"

print("First non-repeating character is:", first\_ non\_ repeating\_ char(s))

Output:

First non-repeating character is: l

3.Find Kth Largest Element in an Array:

def find\_ kth\_ largest( nums, k):

nums. sort (reverse=True)

return nums [k - 1]

Example

nums = [3, 2, 3, 1, 2, 4, 5, 5, 6]

k = 4

print("Kth largest element is:", find\_ kth\_ largest (nums, k))

Output:

Kth largest element is: 4