

## 1. Convert the Temperature

You are given a non-negative floating point number rounded to two decimal places celsius, that denotes the temperature in Celsius. You should convert Celsius into Kelvin and Fahrenheit and return it as an array  
 $ans = [kelvin, fahrenheit]$ . Return the array  $ans$ . Answers within  $10^{-5}$  of the actual answer will be accepted.

Note that:



$Kelvin = Celsius + 273.15$

$Fahrenheit = Celsius * 1.80 + 32.00$

Example 1:

Input: celsius = 36.50

Output: [309.65000,97.70000]

Explanation: Temperature at 36.50 Celsius converted in Kelvin is 309.65 and converted in Fahrenheit is 97.70.

Example 2:

Input: celsius = 122.11

Output: [395.26000,251.79800]

Explanation: Temperature at 122.11 Celsius converted in Kelvin is 395.26 and converted in Fahrenheit is 251.798.

Constraints:  $0 \leq celsius \leq 1000$

1 def convert_temperature(celsius):	[309.65, 97.7]
2     kelvin = celsius + 273.15	[395.26, 251.798]
3     fahrenheit = celsius * 1.8 + 32.0	
4     return [round(kelvin, 5), round(fahrenheit, 5)]	=== Code Execution Successful ===
5 print(convert_temperature(36.50))	
6 print(convert_temperature(122.11))	

## 2. Number of Subarrays With LCM Equal to K

Given an integer array nums and an integer k, return the number of subarrays of nums where the least common multiple of the subarray's elements is k. A subarray is a contiguous non empty sequence of elements within an array. The least common multiple of an array is the smallest positive integer that is divisible by all the array elements.

Example 1: Input: nums = [3,6,2,7,1], k = 6

Output: 4

Explanation: The subarrays of nums where 6 is the least common multiple of all the subarray's elements are:- [3

,6

,2,7,1]- [3

,6

,2

,7,1]- [3,6

,2,7,1]- [3,6

,2

,7,1]

Example 2: Input: nums = [3], k = 2

Output: 0

Explanation: There are no subarrays of nums where 2 is the least common multiple of all the subarray's elements.

Constraints:



$1 \leq \text{nums.length} \leq 1000$



$1 \leq \text{nums}[i], k \leq 1000$

```
main.py  Save Run Output
1 from math import gcd
2 from functools import reduce
3 def lcm(a, b):
4     return a * b // gcd(a, b)
5 def num_of_subarrays_with_lcm(nums, k):
6     def subarray_lcm(subarray):
7         return reduce(lcm, subarray)
8     count = 0
9     n = len(nums)
10    for i in range(n):
11        for j in range(i, n):
12            if subarray_lcm(nums[i:j+1]) == k:
13                count += 1
14    return count
15 print(num_of_subarrays_with_lcm([3,6,2,7,1], 6))
16 print(num_of_subarrays_with_lcm([3], 2))
```

4  
0  
=== Code Execution Successful ===

### 3. Minimum Number of Operations to Sort a Binary Tree by Level

You are given the root of a binary tree with unique values. In one operation, you can choose any two nodes at the same level and swap their values. Return the minimum number of operations needed to make the values at each level sorted in a strictly increasing order.

The level of a node is the number of edges along the path between it and the root node.

Example 1:

Input: root = [1,4,3,7,6,8,5,null,null,null,null,9,null,10]

Output: 3

Explanation:- Swap 4 and 3. The 2nd level becomes [3,4].- Swap 7 and 5. The 3rd level becomes [5,6,8,7].- Swap 8 and 7. The 3rd level becomes [5,6,7,8].

We used 3 operations so return 3.

It can be proven that 3 is the minimum number of operations needed.

Example 2:

Input: root = [1,3,2,7,6,5,4]

Output: 3

Explanation:- Swap 3 and 2. The 2nd level becomes [2,3].- Swap 7 and 4. The 3rd level becomes [4,6,5,7].- Swap 6 and 5. The 3rd level becomes [4,5,6,7].

We used 3 operations so return 3.

It can be proven that 3 is the minimum number of operations needed.

Example 3:

Input: root = [1,2,3,4,5,6]

Output: 0

Explanation: Each level is already sorted in increasing order so return 0.

Constraints:



The number of nodes in the tree is in the range [1, 105].

$1 \leq \text{Node.val} \leq 105$

● All the values of the tree are unique.

```

main.py
1 from collections import deque
2 class TreeNode:
3     def __init__(self, val=0, left=None, right=None):
4         self.val = val
5         self.left = left
6         self.right = right
7 def min_operations_to_sort_levels(root):
8     def bfs_levels(root):
9         levels = []
10        q = deque([root])
11        while q:
12            level_size = len(q)
13            level = []
14            for _ in range(level_size):
15                node = q.popleft()
16                level.append(node.val)
17                if node.left:
18                    q.append(node.left)
19                if node.right:
20                    q.append(node.right)
21            levels.append(level)
22        return levels
23
24    levels = bfs_levels(root)
25    operations = 0
26
27    for level in levels:
28        sorted_level = sorted(level)
29        for i in range(len(level)):
30            if level[i] != sorted_level[i]:
31                idx = level.index(sorted_level[i])
32                level[i], level[idx] = level[idx], level[i]
33                operations += 1
34    return operations
35 root = TreeNode(1)
36 root.left = TreeNode(4)
37 root.right = TreeNode(3)
38 root.left.left = TreeNode(7)
39 root.left.right = TreeNode(6)
40 root.right.left = TreeNode(8)
41 root.right.right = TreeNode(5)
42 print(min_operations_to_sort_levels(root))

```

3

=== Code Execution Successful ===

#### 4. Maximum Number of Non-overlapping Palindrome Substrings

You are given a string  $s$  and a positive integer  $k$ . Select a set of non-overlapping substrings from the string  $s$  that satisfy the following conditions:



The length of each substring is at least  $k$ .



Each substring is a palindrome.

Return the maximum number of substrings in an optimal selection. A substring is a contiguous sequence of characters within a string.

Example 1:

Input:  $s = \text{"abaccdbbd"}, k = 3$

Output: 2

Explanation: We can select the substrings underlined in  $s = \text{"aba}$

$\text{"dbbd"}$  are palindromes and have a length of at least  $k = 3$ .

ccdbbd

". Both "aba" and

It can be shown that we cannot find a selection with more than two valid substrings.

Example 2:

Input: s = "adbcd", k = 2

Output: 0

Explanation: There is no palindrome substring of length at least 2 in the string.

Constraints:

- 

- 

$1 \leq k \leq s.length \leq 2000$

s consists of lowercase English letters.

```
1 def max_non_overlapping_palindromes(s, k):
2     def is_palindrome(sub):
3         return sub == sub[::-1]
4     n = len(s)
5     dp = [[0] * n for _ in range(n)]
6     for i in range(n):
7         dp[i][i] = 1
8
9     for length in range(2, n + 1):
10        for i in range(n - length + 1):
11            j = i + length - 1
12            if is_palindrome(s[i:j+1]) and length >= k:
13                dp[i][j] = max(dp[i][j], dp[i][j-1] + 1)
14            dp[i][j] = max(dp[i][j], dp[i][j-1])
15
16    return dp[0][n-1]
17 print(max_non_overlapping_palindromes("abacdbbd", 3))
18 print(max_non_overlapping_palindromes("adbcd", 2))
```

2  
1  
=== Code Execution Successful ===

## 5. Minimum Cost to Buy Apples

You are given a positive integer n representing n cities numbered from 1 to n. You are also given a 2D array roads, where roads[i] = [ai, bi, costi] indicates that there is a bidirectional road between cities ai and bi with a cost of traveling equal to costi.

You can buy apples in any city you want, but some cities have different costs to buy apples.

You are given the array `appleCost` where `appleCost[i]` is the cost of buying one apple from city `i`.

You start at some city, traverse through various roads, and eventually buy exactly one apple from any city. After you buy that apple, you have to return back to the city you started at, but now the cost of all the roads will be multiplied by a given factor `k`.

Given the integer `k`, return an array `answer` of size `n` where `answer[i]` is the minimum total cost to buy an apple if you start at city `i`.

Example 1:

Input: `n=4, roads=[[1,2,4],[2,3,2],[2,4,5],[3,4,1],[1,3,4]], appleCost=[56,42,102,301], k=`

`2`

Output: `[54,42,48,51]`

Explanation: The minimum cost for each starting city is the following: - Starting at city 1: You take the path 1->2, buy an apple at city 2, and finally take the path 2->1. The total cost is  $4+42+4*2=54$ . - Starting at city 2: You directly buy an apple at city 2. The total cost is 42. - Starting at city 3: You take the path 3->2, buy an apple at city 2, and finally take the path 2->3. The total cost is  $2+42+2*2=48$ . - Starting at city 4: You take the path 4->3->2 then you buy at city 2, and finally take the path 2->3->4. The total cost is  $1+2+42+1*2+2*2=51$ .

Example 2:

Input: `n=3, roads=[[1,2,5],[2,3,1],[3,1,2]], appleCost=[2,3,1], k=3`

Output: `[2,3,1]`

Explanation: It is always optimal to buy the apple in the starting city.

Constraints:

- $2 \leq n \leq 1000$
- $1 \leq \text{roads.length} \leq 1000$
- $1 \leq a_i, b_i \leq n$
- $a_i \neq b_i$
- $1 \leq \text{cost}_i \leq 10^5$

- appleCost.length==n
- 1<=appleCost[i]<=105
- 1<=k<=100
- There are no repeated edges.

cin.py

Save

Run

Output

```

import heapq

def min_cost_to_buy_apples(n, roads, apple_cost, k):
    def dijkstra(start):
        dist = [float('inf')] * n
        dist[start] = 0
        pq = [(0, start)]
        while pq:
            current_dist, u = heapq.heappop(pq)
            if current_dist > dist[u]:
                continue
            for v, cost in graph[u]:
                new_dist = current_dist + cost
                if new_dist < dist[v]:
                    dist[v] = new_dist
                    heapq.heappush(pq, (new_dist, v))
        return dist

    graph = [[] for _ in range(n)]
    for u, v, cost in roads:
        graph[u-1].append((v-1, cost))
        graph[v-1].append((u-1, cost))

    min_costs = []
    for i in range(n):
        dist = dijkstra(i)
        min_cost = min(dist[j] + apple_cost[j] + dist[j] * k for j in range(n))
        min_costs.append(min_cost)

    return min_costs

n = 4
roads = [[1, 2, 4], [2, 3, 2], [2, 4, 5], [3, 4, 1], [1, 3, 4]]
apple_cost = [56, 42, 102, 301]
k = 2
print(min_cost_to_buy_apples(n, roads, apple_cost, k))

```

[54, 42, 48, 51]

=== Code Execution Successful ===

## 6. Customers With Strictly Increasing Purchases

SQLSchema

Table: Orders

```
+-----+-----+
```

```
| Column Name | Type |
```

```
+-----+-----+
```

```
| order_id | int |
```

```
| customer_id | int |
```

```
| order_date | date |
```



| price

| int |

+-----+-----+

order\_id is the primary key for this table.

Each row contains the id of an order, the id of customer that ordered it, the date of the order, and its price.

Write an SQL query to report the IDs of the customers with the total purchases strictly increasing yearly.

● The total purchases of a customer in one year is the sum of the prices of their orders in that year. If for some year the customer did not make any order, we consider the total purchases 0.

● The first year to consider for each customer is the year of their first order.

● The last year to consider for each customer is the year of their last order.

Return the result table in any order.

The query result format is in the following example.

Example 1:

Input:

Orders table:

+-----+-----+-----+-----+

| order\_id | customer\_id | order\_date | price |

+-----+-----+-----+-----+

| 1

| 1

| 2019-07-01 | 1100 |

| 2

| 1

| 2019-11-01 | 1200 |

| 3

| 1

| 2020-05-26 | 3000 |

| 4

| 1

| 2021-08-31 | 3100 |

| 5

| 1

| 2022-12-07 | 4700 |

| 6

| 2

| 2015-01-01 | 700 |

| 7

| 2

| 2017-11-07 | 1000 |

| 8

| 3

| 2017-01-01 | 900 |

| 9

| 3

| 2018-11-07 | 900 |

+-----+-----+-----+-----+

Output:

```

+-----+
| customer_id |
+-----+
| 1 |
+-----+

```

Explanation:

Customer1: The first year is 2019 and the last year is 2022-2019: 1100+1200=2300-2020: 3000-2021: 3100-2022: 4700

We can see that the total purchases are strictly increasing yearly, so we include customer 1 in the answer.

Customer2: The first year is 2015 and the last year is 2017-2015: 700-2016: 0-2017: 1000

We do not include customer 2 in the answer because the total purchases are not strictly increasing. Note that customer 2 did not make any purchases in 2016.

Customer3: The first year is 2017, and the last year is 2018-2017: 900-2018: 900

We can see that the total purchases are strictly increasing yearly, so we include customer 1 in the answer.

```

main.py
1 import sqlite3
2 conn = sqlite3.connect(':memory:')
3 cursor = conn.cursor()
4 cursor.execute('')
5 CREATE TABLE Orders (
6     order_id INT PRIMARY KEY,
7     customer_id INT,
8     order_date DATE,
9     price INT
10 )
11 '''
12 orders_data = [
13     (1, 1, '2019-07-01', 1100),
14     (2, 1, '2019-11-01', 1200),
15     (3, 1, '2020-05-25', 3000),
16     (4, 1, '2021-08-31', 3100),
17     (5, 1, '2022-12-07', 4700),
18     (6, 2, '2019-01-01', 700),
19     (7, 2, '2019-11-07', 800),
20     (8, 3, '2017-01-01', 900),
21     (9, 3, '2018-11-07', 900)
22 ]
23 cursor.executemany('INSERT INTO Orders VALUES (?, ?, ?, ?)', orders_data)
24 query = '''
25 WITH yearly_purchases AS (
26     SELECT
27         customer_id,
28         strftime('%Y', order_date) AS year,
29         SUM(price) AS total_price
30     FROM Orders
31     GROUP BY customer_id, year
32 ),
33 yearly_ranks AS (
34     SELECT
35         customer_id,
36         year,
37         total_price,
38         RANK() OVER (PARTITION BY customer_id ORDER BY year) AS year_rank
39     FROM yearly_purchases
40 ),
41 ordered_purchases AS (
42     SELECT
43         customer_id,
44         total_price,
45         LAG(total_price) OVER (PARTITION BY customer_id ORDER BY year_rank) AS prev_total_price
46     FROM yearly_ranks
47 )
48 SELECT DISTINCT customer_id
49 FROM ordered_purchases
50 WHERE prev_total_price IS NULL OR total_price > prev_total_price
51 GROUP BY customer_id
52 HAVING COUNT() = (SELECT COUNT() FROM yearly_purchases yp WHERE yp.customer_id = ordered_purchases.customer_id)'''
53 cursor.execute(query)
54 results = cursor.fetchall()
55 print("Customer IDs with strictly increasing purchases:")
56 for row in results:
57     print(row[0])
58 conn.close()

```

Output

```

Customer IDs with strictly increasing purchases:
1
2
=== Code Execution Successful ===

```

## 7.NumberofUnequalTripletsinArray

You are given a 0-indexed array of positive integers `nums`. Find the number of triplets  $(i, j, k)$

that meet the following conditions:

- $0 \leq i < j < k < \text{nums.length}$
- `nums[i]`, `nums[j]`, and `nums[k]` are pairwise distinct.
- In other words, `nums[i] != nums[j]`, `nums[i] != nums[k]`, and `nums[j] != nums[k]`.

Return the number of triplets that meet the conditions.

Example 1:

Input: `nums = [4,4,2,4,3]`

Output: 3

Explanation: The following triplets meet the conditions:  $(0, 2, 4)$  because  $4 \neq 2 \neq 3$ ,  $(1, 2, 4)$  because  $4 \neq 2 \neq 3$ ,  $(2, 3, 4)$  because  $2 \neq 4 \neq 3$

Since there are 3 triplets, we return 3.

Notethat(2,0,4)isnotavalidtripletbecause2>0.

Example2:

Input:nums=[1,1,1,1,1]

Output:0

Explanation:Notripletsmeettheconditionssowereturn0.

Constraints:

- $3 \leq \text{nums.length} \leq 100$
- $1 \leq \text{nums}[i] \leq 1000$

```
1 def count_unequal_triplets(nums):
2     count = 0
3     n = len(nums)
4     for i in range(n):
5         for j in range(i+1, n):
6             for k in range(j+1, n):
7                 if nums[i] != nums[j] and nums[i] != nums[k] and nums[j] !=
                    nums[k]:
8                     count += 1
9     return count
0 print(count_unequal_triplets([4, 4, 2, 4, 3]))
1 print(count_unequal_triplets([1, 1, 1, 1, 1]))
```

3  
0  
=== Code Execution Successful ===

## 8.ClosestNodesQueriesinaBinarySearchTree

Youaregiven therootofabinarysearchtreeandanarrayqueriesofsize $n$ consistingof positiveintegers.

Finda2Darrayanswerofsize $n$ whereanswer[i]=[mini,maxi]:

- miniisthelargestvalueinthetreethatis smallerthanorequaltoqueries[i].Ifasuch valuedoesnotexist,add-1instead.
- maxiisthesmallestvalueinthetreethatis greaterthanorequaltoqueries[i].Ifa suchvaluedoesnotexist,add-1instead.

Returnthearrayanswer.

Example1:

Input:root=[6,2,13,1,4,9,15,null,null,null,null,null,14],queries=[2,5,16]

Output:[[2,2],[4,6],[15,-1]]

Explanation: We answer the queries in the following way:-

The largest number that is smaller or equal than 2 in the tree is 2, and the smallest number

that is greater or equal than 2 is still 2. So the answer for the first query is [2, 2].-

The largest number that is smaller or equal than 5 in the tree is 4, and the smallest number

that is greater or equal than 5 is 6. So the answer for the second query is [4, 6].-

The largest number that is smaller or equal than 16 in the tree is 15, and the smallest number

that is greater or equal than 16 does not exist. So the answer for the third query is [15, -1].

Example 2:

Input: root = [4, null, 9], queries = [3]

Output: [[-1, 4]]

Explanation: The largest number that is smaller or equal to 3 in the tree does not exist, and

the smallest number that is greater or equal to 3 is 4. So the answer for the query is [-1, 4].

Constraints:

- The number of nodes in the tree is in the range [2, 105].
- $1 \leq \text{Node.val} \leq 106$
- $n == \text{queries.length}$
- $1 \leq n \leq 105$
- $1 \leq \text{queries}[i] \leq 106$

```

class TreeNode:
    def __init__(self, val=0, left=None, right=None):
        self.val = val
        self.left = left
        self.right = right
def closest_nodes_queries(root, queries):
    def inorder_traversal(node):
        if not node:
            return []
        return inorder_traversal(node.left) + [node.val] + inorder_traversal(node.right)

    sorted_values = inorder_traversal(root)
    result = []
    for query in queries:
        mini = -1
        maxi = -1
        for val in sorted_values:
            if val <= query:
                mini = val
            if val >= query and maxi == -1:
                maxi = val
            break
        result.append([mini, maxi])
    return result
root = TreeNode(6)
root.left = TreeNode(2)
root.right = TreeNode(13)
root.left.left = TreeNode(1)
root.left.right = TreeNode(4)
root.right.left = TreeNode(9)
root.right.right = TreeNode(15)
root.right.right.left = TreeNode(14)
queries = [2, 5, 16]
print(closest_nodes_queries(root, queries))

```

[[2, 2], [4, 6], [15, -1]]

=== Code Execution Successful ===

## 9. Minimum Fuel Cost to Report to the Capital

There is a tree (i.e., a connected, undirected graph with no cycles) structure country network

consisting of  $n$  cities numbered from  $0$  to  $n-1$  and exactly  $n-1$  roads. The capital city is city

$0$ . You are given a  $2D$  integer array `roads` where `roads[i] = [ai, bi]` denotes that there exists a

bidirectional road connecting cities  $a_i$  and  $b_i$ .

There is a meeting for the representatives of each city. The meeting is in the capital

city. There is a car in each city. You are given an integer `seats` that indicates the number of

seats in each car. A representative can use the car in their city to travel or change the car and

ride with another representative. The cost of traveling between two cities is one liter of fuel.

Return the minimum number of liters of fuel to reach the capital city.

Example 1:

Input: `roads = [[0,1],[0,2],[0,3]], seats = 5`

Output: 3

Explanation:- Representative1 goes directly to the capital with 1 liter of fuel.-  
Representative2 goes directly to the capital with 1 liter of fuel.-  
Representative3 goes directly to the capital with 1 liter of fuel.

It costs 3 liters of fuel at minimum.

It can be proven that 3 is the minimum number of liters of fuel needed.

Example 2:

Input: roads = [[3,1],[3,2],[1,0],[0,4],[0,5],[4,6]], seats = 2

Output: 7

Explanation:- Representative2 goes directly to city 3 with 1 liter of fuel.- Representative2 and representative3 go together to city 1 with 1 liter of fuel.- Representative2 and representative3 go together to the capital with 1 liter of fuel.- Representative1 goes directly to the capital with 1 liter of fuel.- Representative5 goes directly to the capital with 1 liter of fuel.- Representative6 goes directly to city 4 with 1 liter of fuel.- Representative4 and representative6 go together to the capital with 1 liter of fuel.

It costs 7 liters of fuel at minimum.

It can be proven that 7 is the minimum number of liters of fuel needed.

Example 3:

Input: roads = [], seats = 1

Output: 0

Explanation: No representatives need to travel to the capital city.

Constraints:

- 
- 
- 
- 
- 

$1 \leq n \leq 105$

roads.length == n - 1



roads[i].length == 2

0 <= ai, bi < n

ai != bi

roads represents a valid tree.

●

●

1 <= seats <= 105

```
from collections import defaultdict

def min_fuel_cost(roads, seats):
    n = len(roads) + 1
    graph = defaultdict(list)
    for u, v in roads:
        graph[u].append(v)
        graph[v].append(u)

    def dfs(node, parent):
        representatives = 1
        fuel = 0
        for neighbor in graph[node]:
            if neighbor == parent:
                continue
            reps, cost = dfs(neighbor, node)
            representatives += reps
            fuel += cost
        if node != 0:
            fuel += (representatives + seats - 1) // seats
        return representatives, fuel

    _, total_fuel = dfs(0, -1)
    return total_fuel

roads = [[0, 1], [0, 2], [0, 3]]
seats = 5
print(min_fuel_cost(roads, seats))
```

3

=== Code Execution Successful ===

## 10. Number of Beautiful Partitions

You are given a string *s* that consists of the digits '1' to '9' and two integers *k* and *minLength*.

A partition of *s* is called beautiful if:

●

*s* is partitioned into *k* non-intersecting substrings.

●

Each substring has a length of at least *minLength*.

● Each substring starts with a prime digit and ends with a non-prime digit. Prime digits are '2', '3', '5', and '7', and the rest of the digits are non-prime.

Return the number of beautiful partitions of  $s$ . Since the answer may be very large, return it modulo  $10^9 + 7$ . A substring is a contiguous sequence of characters within a string.

Example 1:

Input:  $s = "23542185131"$ ,  $k = 3$ ,  $minLength = 2$

Output: 3

Explanation: There exists three ways to create a beautiful partition:

"2354 | 218 | 5131"

"2354 | 21851 | 31"

"2354218 | 51 | 31"

Example 2:

Input:  $s = "23542185131"$ ,  $k = 3$ ,  $minLength = 3$

Output: 1

Explanation: There exists one way to create a beautiful partition: "2354 | 218 | 5131".

Example 3:

Input:  $s = "3312958"$ ,  $k = 3$ ,  $minLength = 1$

Output: 1

Explanation: There exists one way to create a beautiful partition: "331 | 29 | 58".

Constraints:

●

●

$1 \leq k$ ,  $minLength \leq s.length \leq 1000$

$s$  consists of the digits '1' to '9'.

<pre>class FrequencyTracker:     def __init__(self):         self.num_count = {}         self.freq_count = {}     def add(self, number):         if number in self.num_count:             old_freq = self.num_count[number]             self.freq_count[old_freq] -= 1             if self.freq_count[old_freq] == 0:                 del self.freq_count[old_freq]             self.num_count[number] += 1         else:             self.num_count[number] = 1             new_freq = self.num_count[number]             if new_freq in self.freq_count:                 self.freq_count[new_freq] += 1             else:                 self.freq_count[new_freq] = 1     def deleteOne(self, number):         if number in self.num_count:             old_freq = self.num_count[number]             self.freq_count[old_freq] -= 1             if self.freq_count[old_freq] == 0:                 del self.freq_count[old_freq]             if old_freq == 1:                 del self.num_count[number]             else:                 self.num_count[number] -= 1                 new_freq = self.num_count[number]                 if new_freq in self.freq_count:                     self.freq_count[new_freq] += 1                 else:                     self.freq_count[new_freq] = 1     def hasFrequency(self, frequency):         return frequency in self.freq_count and self.freq_count[frequency] &gt; 0  freq_tracker = FrequencyTracker() freq_tracker.add(3) freq_tracker.add(3) freq_tracker.add(5) freq_tracker.deleteOne(3) print(freq_tracker.hasFrequency(2)) print(freq_tracker.hasFrequency(1))</pre>	<pre>False True  === Code Execution Successful ===</pre>
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