# Rajalakshmi Engineering College

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Batch: 2028

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# NeoColab\_REC\_CS23221\_Python Programming

REC\_Python\_Week 5\_MCQ

Attempt: 1 Total Mark: 20 Marks Obtained: 18

Section 1: MCQ

1. Fill in the code in order to get the following output.

Output:

Tuple: (1, 3, 4)

Max value: 4

t=(1,)

print("Tuple:" ,t)
print("Max value:",\_\_\_\_\_

Answer

1) t=t+(3,4)2) Max(t)

Status: Wrong

Marks : 0/1

2. What is the output of the following?

```
set1 = {10, 20, 30, 40, 50}
   set2 = {60, 70, 10, 30, 40, 80, 20, 50}
   print(set1.issubset(set2))
   print(set2.issuperset(set1))
```

#### Answer

TrueTrue

Status: Correct Marks: 1/1

3. What is the output of the below Python code?

```
/ list1 = [1, 2, 3]
   list2 = [5, 6, 7]
   list3 = [10, 11, 12]
   set1 = set(list2)
   set2 = set(list1)
   set1.update(set2)
   set1.update(list3)
   print(set1)
```

#### Answer

{1, 2, 3, 5, 6, 7, 10, 11, 12}

Marks: 1/1 Status: Correct

4. Predict the output of the following Python program

```
init_tuple_a = 1, 2, 8
init_tuple_b = (1, 2, 7)
set1=set(init_tuple_b)
set2=set(init_tuple_a)
print (set1 | set2)
print (init_tuple_a | init_tuple_b)
```

#### Answer

{1, 2, 7, 8}TypeError: unsupported operand type

Status: Correct Marks: 1/1

5. Which of the following statements is used to create an empty tuple?

**Answer** 

()

Status: Correct Marks: 1/1

6. What is the output of the following code?

a={"a":1,"b":2,"c":3} b=dict(zip(a.values(),a.keys())) print(b)

Answer

{1: 'a', 2: 'b', 3: 'c'}

Status: Correct Marks: 1/1

7. What is the result of print(type({}) is set)?

**Answer** 

False

Status: Correct Marks: 1/1

8. What will be the output?

a={'B':5,'A':9,'C':7} print(sorted(a))

Answer

['A', 'B', 'C'].

Status: Correct Marks: 1/1

9. What is the output of the following code?

a=(1,2,(4,5)) b=(1,2,(3,4)) print(a<b)

Answer

False

Status: Correct Marks: 1/1

10. What will be the output for the following code?

**Answer** 

**False** 

Status: Correct Marks: 1/1

11. What is the output of the following code?

Answer

{1: 'A', 2: 'B', 3: 'C'}

Status: Correct Marks: 1/1

12. Which of the following isn't true about dictionary keys?

Answer

Keys must be integers

Marks: 1/1 Status: Correct

13. Which of the statements about dictionary values is false?

#### Answer

Values of a dictionary must be unique

Status: Correct Marks: 1/1

14. If 'a' is a dictionary with some key-value pairs, what does a.popitem() do?

#### Answer

Removes an arbitrary element

Marks: 1/1 Status: Correct

15. What will be the output of the following program?

#### Answer

{1,2,3,4}

Status: Wrong Marks: 0/1

16. Suppose t = (1, 2, 4, 3), which of the following is incorrect?

#### Answer

t[3] = 45

Status: Correct Marks : 1/1

17. Set s1 = {1, 2, 4, 3} and s2 = {1, 5, 4, 6}, find s1 & amp; s2, s1 - s2, s1 | s2 and s1 ^ s2.

#### Answer

$$s1\&s2 = \{1, 4\}s1-s2 = \{2, 3\}s1^s2 = \{2, 3, 5, 6\}s1|s2 = \{1, 2, 3, 4, 5, 6\}$$

Status: Correct Marks: 1/1

18. Which of the following is a Python tuple?

#### **Answer**

(1, 2, 3)

Marks: 1/1 Status: Correct

19. What will be the output for the following code?

$$a=(1,2,3)$$

print(c)

print(tuple(c))

#### Answer

((1, 'A'), (2, 'B'), (3, 'C'))

Status: Correct Marks: 1/1

20. What will be the output of the following code?

Answer

13 13

Status : Correct Marks : 1/1

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# NeoColab\_REC\_CS23221\_Python Programming

REC\_Python\_Week 5\_COD

Attempt : 1 Total Mark : 50 Marks Obtained : 46

Section 1: Coding

#### 1. Problem Statement

Professor Adams needs to analyze student participation in three recent academic workshops. She has three sets of student IDs: the first set contains students who registered for the workshops, the second set contains students who actually attended, and the third set contains students who dropped out.

Professor Adams needs to determine which students who registered also attended, and then identify which of these students did not drop out.

Help Professor Adams identify the students who registered, attended, and did not drop out of the workshops.

**Input Format** 

The first line of input consists of integers, representing the student IDs who registered for the workshops.

The second line consists of integers, representing the student IDs who attended the workshops.

The third line consists of integers, representing the student IDs who dropped out of the workshops.

#### **Output Format**

The first line of output displays the intersection of the first two sets, which shows the IDs of students who registered and attended.

The second line displays the result after removing student IDs that are in the third set (dropped out), showing the IDs of students who both attended and did not drop out.

Refer to the sample output for the formatting specifications.

## Sample Test Case

```
Input: 1 2 3
2 3 4
3 4 5
Output: {2, 3}
{2}
```

#### Answer

```
registered = set(map(int, input().split()))
attended = set(map(int, input().split()))
dropped_out = set(map(int, input().split()))
registered_and_attended = registered.intersection(attended)
print(registered_and_attended)
attended_not_dropped = registered_and_attended.difference(dropped_out)
print(attended_not_dropped)
```

Status: Correct Marks: 10/10

# 2. Problem Statement

Gowshik is working on a task that involves taking two lists of integers as input, finding the element-wise sum of the corresponding elements, and then creating a tuple containing the sum values.

Write a program to help Gowshik with this task.

Example:

Given list:

[1, 2, 3, 4]

[3, 5, 2, 1]

An element-wise sum of the said tuples: (4, 7, 5, 5)

# **Input Format**

The first line of input consists of a single integer n, representing the length of the input lists.

The second line of input consists of n integers separated by commas, representing the elements of the first list.

The third line of input consists of n integers separated by commas, representing the elements of the second list.

# Output Format

The output is a single line containing a tuple of integers separated by commas, representing the element-wise sum of the corresponding elements from the two input lists.

Refer to the sample output for the formatting specifications.

# Sample Test Case

Input: 4 1, 2, 3, 4

```
3, 5, 2, 1
Output: (4, 7, 5, 5)

Answer

n=int(input())
s=[]
i=0
l=list(map(int,input().split(", ")))
l1=list(map(int,input().split(", ")))
while(i!=n):
    s.append(l[i]+l1[i])
    i=i+1
print(tuple(s))

Status: Partially correct
```

#### 3. Problem Statement

James is managing a list of inventory items in a warehouse. Each item is recorded as a tuple, where the first element is the item ID and the second element is a list of quantities available for that item. James needs to filter out all quantities that are above a certain threshold to find items that have a stock level above this limit.

Marks : 6/10

Help James by writing a program to process these tuples, filter the quantities from all the available items, and display the results.

#### Note:

Use the filter() function to filter out the quantities greater than the specified threshold for each item's stock list.

# Input Format

The first line of input consists of an integer N, representing the number of tuples.

The next N lines each contain a tuple in the format (ID, [quantity1, quantity2, ...]), where ID is an integer and the list contains integers.

The final line consists of an integer threshold, representing the quantity threshold.

## **Output Format**

The output should be a single line displaying the filtered quantities, spaceseparated. Each quantity is strictly greater than the given threshold.

Refer to the sample output for formatting specifications.

```
Sample Test Case
Input: 2
(1, [1, 2])
(2, [3, 4])
Output: 3 4
Answer
n = int(input())
inventory = ∏
for i in range(n):
   line = input()
   item = eval(line)
   inventory.append(item)
threshold = int(input())
result = []
for item_id, quantities in inventory:
   filtered = list(filter(lambda x: x > threshold, quantities))
   result.extend(filtered)
print(*result)
Status: Correct
```

Marks: 10/10

4. Problem Statement

Ella is analyzing the sales data for a new online shopping platform. She has a record of customer transactions where each customer's data includes their ID and a list of amounts spent on different items. Ella needs to determine the total amount spent by each customer and identify the highest single expenditure for each customer.

Your task is to write a program that computes these details and displays them in a dictionary.

#### **Input Format**

The first line of input consists of an integer n, representing the number of customers.

Each of the next n lines contains a numerical customer ID followed by integers representing the amounts spent on different items.

## **Output Format**

The output displays a dictionary where the keys are customer IDs and the values are lists containing two integers: the total expenditure and the maximum single expenditure.

Refer to the sample output for formatting specifications.

#### Sample Test Case

Status: Correct Marks: 10/10

#### 5. Problem Statement

Liam is analyzing a list of product IDs from a recent sales report. He needs to determine how frequently each product ID appears and calculate the following metrics:

Frequency of each product ID: A dictionary where the key is the product ID and the value is the number of times it appears. Total number of unique product IDs. Average frequency of product IDs: The average count of all product IDs.

Write a program to read the product IDs, compute these metrics, and output the results.

#### Example

# Input:

//number of product ID

101

102

101\0

103

101

102 //product IDs

# Output:

{101: 3, 102: 2, 103: 1}

Total Unique IDs: 3

Average Frequency: 2.00

Explanation:

Input 6 indicates that you will enter 6 product IDs.

A dictionary is created to track the frequency of each product ID.

Input 101: Added with a frequency of 1.

Input 102: Added with a frequency of 1.

Input 101: Frequency of 101 increased to 2.

Input 103: Added with a frequency of 1.

Input 101: Frequency of 101 increased to 3.

Input 102: Frequency of 102 increased to 2.

The dictionary now contains 3 unique IDs: 101, 102, and 103.

Total Unique is 3.

The average frequency is 2.00.

#### **Input Format**

The first line of input consists of an integer n, representing the number of product IDs.

The next n lines each contain a single integer, each representing a product ID.

# **Output Format**

The first line of output displays the frequency dictionary, which maps each product ID to its count.

The second line displays the total number of unique product IDs, preceded by "Total Unique IDs: ".

The third line displays the average frequency of the product IDs. This is calculated by dividing the total number of occurrences of all product IDs by the total number of unique product IDs, rounded to two decimal places. It is preceded by "Average Frequency: ".

Refer to the sample output for formatting specifications.

# Sample Test Case

```
24,150,1013
                                                    247501073
    Input: 6
    101
102
    101
    103
    101
    102
    Output: {101: 3, 102: 2, 103: 1}
    Total Unique IDs: 3
    Average Frequency: 2.00
    Answer
                                                                              241501013
    n = int(input())
    frequency = {}
    for _ in range(n):
      product_id = int(input())
      if product_id in frequency:
        frequency[product_id] += 1
      else:
        frequency[product_id] = 1
                                                    24,150,1013
total_unique = len(frequency)
    total_frequency = sum(frequency.values())
    average_frequency = total_frequency / total_unique
    print(frequency)
    print("Total Unique IDs:", total_unique)
    print("Average Frequency: {:.2f}".format(average_frequency))
                                                                       Marks: 10/10
    Status: Correct
```

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# NeoColab\_REC\_CS23221\_Python Programming

REC\_Python\_Week 5\_PAH

Attempt : 1 Total Mark : 60 Marks Obtained : 56

Section 1: Coding

#### 1. Problem Statement

Tom wants to create a dictionary that lists the first n prime numbers, where each key represents the position of the prime number, and the value is the prime number itself.

Help Tom generate this dictionary based on the input she provides.

# Input Format

The input consists of an integer n, representing the number of prime numbers Tom wants to generate.

# **Output Format**

The output displays the generated dictionary where each key is an integer from 1 to n, and the corresponding value is the prime number.

Refer to the sample output for formatting specifications.

```
Sample Test Case
Input: 4
Output: {1: 2, 2: 3, 3: 5, 4: 7}
Answer
def is_prime(num):
  if num <= 1:
    return False
  for i in range(2, int(num**0.5) + 1):
    if num % i == 0:
       return False
  return True
def generate_primes(n):
  primes = {}
  count = 0
  num = 2 # Start checking for prime numbers from 2
  while count < n:
     if is_prime(num):
       count += 1
      primes[count] = num
   num += 1
return primes
# Input
n = int(input().strip())
# Generate and print the dictionary of prime numbers
print(generate_primes(n))
```

Status: Correct Marks: 10/10

#### 2. Problem Statement

Maya wants to create a dictionary that maps each integer from 1 to a given number n to its square. She will use this dictionary to quickly reference the

square of any number up to n.

Help Maya generate this dictionary based on the input she provides.

#### **Input Format**

The input consists of an integer n, representing the highest number for which Maya wants to calculate the square.

#### **Output Format**

The output displays the generated dictionary where each key is an integer from 1 to n, and the corresponding value is its square.

Refer to the sample output for formatting specifications.

#### Sample Test Case

```
Input: 5
Output: {1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
Answer

def generate_square_dict(n):
    square_dict = {i: i**2 for i in range(1, n + 1)}
    return square_dict

n = int(input().strip())
print(generate_square_dict(n))
```

Status: Correct Marks: 10/10

#### 3. Problem Statement

Rishi is working on a program to manipulate a set of integers. The program should allow users to perform the following operations:

Find the maximum value in the set. Find the minimum value in the

set.Remove a specific number from the set.

The program should handle these operations based on user input. If the user inputs an invalid operation choice, the program should indicate that the choice is invalid.

#### **Input Format**

The first line contains space-separated integers that will form the initial set. Each integer x is separated by a space.

The second line contains an integer ch, representing the user's choice:

- 1 to find the maximum value
- 2 to find the minimum value
- 3 to remove a specific number from the set

If ch is 3, the third line contains an integer n1, which is the number to be removed from the set.

#### **Output Format**

The first line of output prints the original set in descending order.

For choice 1: Print the maximum value from the set.

For choice 2: Print the minimum value from the set.

For choice 3: Print the set after removing the specified number, in descending order.

For invalid choices: Print "Invalid choice".

Refer to the sample output for the formatting specifications.

## Sample Test Case

Input: 1 2 3 4 5

Output: {5, 4, 3, 2, 1}

5

#### Answer

```
initial_set = list(map(int, input().strip().split()))
original_set = sorted(set(initial_set), reverse=True)
    print(f"{{{', '.join(map(str, original_set))}}}")
    ch = int(input().strip())
    if ch == 1:
      max_value = max(original_set)
      print(max_value)
    elif ch == 2:
    min_value = min(original_set)
      print(min_value)
    elif ch == 3:
      n1 = int(input().strip())
      if n1 in original_set:
         original_set.remove(n1)
      print(f"{{{', '.join(map(str, sorted(original_set, reverse=True)))}}}")
    else:
      print("Invalid choice")
```

Status: Correct Marks: 10/10

# 4. Problem Statement

Sophia is organizing a list of event IDs representing consecutive days of an event. She needs to group these IDs into consecutive sequences. For example, if the IDs 3, 4, and 5 appear consecutively, they should be grouped.

Write a program that helps Sophia by reading the total number of event IDs and the IDs themselves, then display each group of consecutive IDs in tuple format.

# **Input Format**

The first line of input consists of an integer n, representing the number of event IDs.

The next n lines contain integers representing the event IDs, where each integer corresponds to an event ID.

#### **Output Format**

The output should display each group of consecutive event IDs in a tuple format. Each group should be printed on a new line, and single event IDs should be displayed as a single-element tuple.

Refer to the sample output for formatting specifications.

# Sample Test Case

```
Input: 3
    2
    Output: (1, 2, 3)
    Answer
    # Read the total number of event IDs
    n = int(input().strip())
    # Read the event IDs into a list
    event_ids = [int(input().strip()) for _ in range(n)]
   # Sort the event IDs
    event_ids.sort()
    # Initialize a list to hold the groups of consecutive IDs
    groups = []
    current_group = []
    # Iterate through the sorted event IDs
    for i in range(len(event_ids)):
      if i == 0 or event_ids[i] == event_ids[i - 1] + 1:
        # If it's the first element or consecutive, add to the current group
       current_group.append(event_ids[i])
   o else:
        # If not consecutive, save the current group and start a new one
```

```
groups.append(tuple(current_group))
current_group = [event_ids[i]]
```

# Don't forget to add the last group
if current\_group:
 groups.append(tuple(current\_group))

# Print each group in tuple format for group in groups: print(group)

Status: Partially correct Marks: 6/10

## 5. Problem Statement

Mia is organizing a list of integers into a series of pairs for his new project. She wants to create pairs of consecutive integers from the list. The last integer should be paired with None to complete the series. The pairing happens as follows: ((Element 1, Element 2), (Element 2, Element 3)....... (Element n, None)).

Your task is to help Henry by writing a Python program that reads a list of integers, forms these pairs, and displays the result in tuple format.

# **Input Format**

The first line of input consists of an integer n, representing the number of elements in the tuple.

The second line of input contains n space-separated integers, representing the elements of the tuple.

# **Output Format**

The output displays a tuple containing pairs of consecutive integers from the input. The last integer in the tuple is paired with 'None'.

Refer to the sample output for formatting specifications.

```
Sample Test Case
   Input: 3
5 10 15
    Output: ((5, 10), (10, 15), (15, None))
    Answer
    n = int(input().strip())
    elements = list(map(int, input().strip().split()))
    pairs = []
    for i in range(n - 1):
      pairs.append((elements[i], elements[i + 1]))
    pairs.append((elements[-1], None))
    print(tuple(pairs))
```

# 6. Problem Statement

Status: Correct

Jordan is creating a program to process a list of integers. The program should take a list of integers as input, remove any duplicate integers while preserving their original order, concatenate the remaining unique integers into a single string, and then print the result.

Marks: 10/10

Help Jordan in implementing the same.

# **Input Format**

24/50/0/3 The input consists of space-separated integers representing the elements of the set.

# **Output Format**

The output prints a single integer formed by concatenating the unique integers from the input in the order they appeared.

Refer to the sample output for the formatting specifications.

```
Sample Test Case
```

Input: 11 11 33 50 Output: 113350

#### Answer

input\_numbers = input().strip().split()

seen = set() unique\_numbers = []

for number in input\_numbers:
 if number not in seen:
 seen.add(number)
 unique\_numbers.append(number)

result = ".join(unique\_numbers)

print(result)

Status : Correct

Marks : 10/10

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# NeoColab\_REC\_CS23221\_Python Programming

REC\_Python\_Week 5\_CY

Attempt : 1 Total Mark : 40

Marks Obtained: 27.5

Section 1 : Coding

#### 1. Problem Statement

James is an engineer working on designing a new rocket propulsion system. He needs to solve a quadratic equation to determine the optimal launch trajectory. The equation is of the form ax2 +bx+c=0.

Your task is to help James find the roots of this quadratic equation. Depending on the discriminant, the roots might be real and distinct, real and equal, or complex. Implement a program to determine and display the roots of the equation based on the given coefficients.

# Input Format

The first line of input consists of an integer N, representing the number of coefficients.

The second line contains three space-separated integers a,b, and c representing the coefficients of the quadratic equation.

# Output Format

The output displays:

- 1. If the discriminant is positive, display the two real roots.
- 2. If the discriminant is zero, display the repeated real root.
- 3. If the discriminant is negative, display the complex roots as a tuple with real and imaginary parts.

Refer to the sample output for formatting specifications.

```
Sample Test Case
    Input: 3
    156
    Output: (-2.0, -3.0)
    Answer
    import math
    # Read the number of coefficients (always 3)
    N = int(input().strip())
   # Read the coefficients a, b, and c
a, b, c = map(int, input().strip().split())
    # Calculate the discriminant
    D = b**2 - 4*a*c
    if D > 0:
      # Two distinct real roots
      root1 = (-b + math.sqrt(D)) / (2 * a)
      root2 = (-b - math.sqrt(D)) / (2 * a)
      print(f"({root1}, {root2})")
    elif D == 0:
      # One repeated real root
    \sqrt{\text{root}} = -b / (2 * a)
      print(f"({root})")
```

```
else:

# Complex roots

real_part = -b / (2 * a)

imaginary_part = math.sqrt(-D) / (2 * a)

root1 = (real_part, imaginary_part)

root2 = (real_part, -imaginary_part)

print(f"(({root1[0]}, {root1[1]})), ({root2[0]}, {root2[1]}))")
```

Status: Partially correct Marks: 7.5/10

#### 2. Problem Statement

Riley is analyzing DNA sequences and needs to determine which bases match at the same positions in two given DNA sequences. Each DNA sequence is represented as a tuple of integers, where each integer corresponds to a DNA base.

Your task is to write a program that compares these two sequences and identifies the bases that match at the same positions and print it.

#### **Input Format**

The first line of input consists of an integer n, representing the size of the first tuple.

The second line contains n space-separated integers, representing the elements of the first DNA sequence tuple.

The third line of input consists of an integer m, representing the size of the second tuple.

The fourth line contains m space-separated integers, representing the elements of the second DNA sequence tuple.

# **Output Format**

The output is a space-separated integer of the matching bases at the same positions in both sequences.

Refer to the sample output for format specifications.

Sample Test Case

```
Input: 4
5 1 8 4
4
4 1 8 2
Output: 1 8

Answer

n = int(input().strip())

sequence1 = tuple(map(int, input().strip().split()))

m = int(input().strip())

sequence2 = tuple(map(int, input().strip().split()))

min_length = min(n, m)

matches = []

for i in range(min_length):
    if sequence1[i] == sequence2[i]:
        matches.append(sequence1[i])

print(' '.join(map(str, matches)))
```

Status: Correct Marks: 10/10

#### 3. Problem Statement

Noah, a global analyst at a demographic research firm, has been tasked with identifying which country experienced the largest population growth over a two-year period. He has a dataset where each entry consists of a country code and its population figures for two consecutive years. Noah needs to determine which country had the highest increase in population and present the result in a specific format.

Help Noah by writing a program that outputs the country code with the

largest population increase, along with the increase itself.

# Input Format

The first line of input consists of an integer N, representing the number of countries.

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Each of the following N blocks contains three lines:

- 1. The first line is a country code.
- 2. The second line is an integer representing the population of the country in the first year.
- 3. The third line is an integer representing the population of the country in the second year.

#### **Output Format**

The output displays the country code and the population increase in the format {code: difference}, where code is the country code and difference is the increase in population.

Refer to the sample output for formatting specifications.

# Sample Test Case

Input: 3

01

1000

1500

02

2000

2430

03

1500

3000

Output: {03:1500}

#### Answer

N = int(input()) # Read the number of countries

max\_increase = 0

```
for _ in range(N):
    country_code = input().strip() # Read country code
    pop_year_1 = int(input()) # Read population for first year
    pop_year_2 = int(input()) # Read population for second year

increase = pop_year_2 - pop_year_1 # Calculate the population increase

if increase > max_increase: # Update max values if new increase is greater
    max_increase = increase
    max_country_code = country_code

# Output in the required format
    print(f"{{{max_country_code}:{max_increase}}})")

Status: Correct

Marks: 10/10
```

#### 4. Problem Statement

Riya owns a store and keeps track of item prices from two different suppliers using two separate dictionaries. He wants to compare these prices to identify any differences. Your task is to write a program that calculates the absolute difference in prices for items that are present in both dictionaries. For items that are unique to one dictionary (i.e., not present in the other), include them in the output dictionary with their original prices.

Help Riya to implement the above task using a dictionary.

## **Input Format**

The first line of input consists of an integer n1, representing the number of items in the first dictionary.

The next n1 lines contain two integers

- 1. The first line contains the item (key), and
- 2. The second line contains the price (value).

The following line consists of an integer n2, representing the number of items in

the second dictionary

The next n2 lines contain two integers

- 1. The first line contains the item (key), and
- 2. The second line contains the price (value).

#### **Output Format**

The output should display a dictionary that includes:

- 1. For items common to both dictionaries, the absolute difference between their prices.
- 2. For items that are unique to one dictionary, the original price from that dictionary.

Refer to the sample output for formatting specifications.

#### Sample Test Case

```
Input: 1
     4
     4
     1
     8
    Output: {4: 4, 8: 7}
    Answer
    n1 = int(input()) # Number of items in the first dictionary
    dict1 = {}
    # Read first dictionary's items and prices
    for _ in range(n1):
       key = int(input())
       value = int(input())
       dict1[key] = value
    n2 = int(input()) # Number of items in the second dictionary
__= int(i
dict2 = {}
```

```
241501013
                                                 241501013
# Read second dictionary's items and prices
for _ in range(n2):
  key = int(input())
  value = int(input())
  dict2[key] = value
# Merging dictionaries and computing absolute differences
output_dict = {}
for key in set(dict1.keys()).union(set(dict2.keys())):
  if key in dict1 and key in dict2:
    output_dict[key] = abs(dict1[key] - dict2[key]) # Absolute difference for
common items
                                                                            241501013
  elif key in dict1:
    output_dict[key] = dict1[key] # Items unique to first dictionary
    output_dict[key] = dict2[key] # Items unique to second dictionary
print(output_dict)
Status: Wrong
                                                                      Marks: 0/10
```

241501013

24,150,1013

247501013

041501013

24/50/013

247507073

24/50/073

241501013