# <u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Lists and its operations.</u> / <u>Week6 Coding</u>

| Started on   | Thursday, 9 May 2024, 10:24 AM |
|--------------|--------------------------------|
| State        | Finished                       |
| Completed on | Sunday, 12 May 2024, 10:24 AM  |
| Time taken   | 3 days                         |
| Overdue      | 1 day                          |
| Marks        | 9.00/10.00                     |
| Grade        | <b>90.00</b> out of 100.00     |

Question **1**Correct

Mark 1.00 out of

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the  $p^{th}$  element of the <u>list</u>, sorted ascending. If there is no  $p^{th}$  element, return 0.

#### **Example**

```
n = 20
```

p = 3

The factors of 20 in ascending order are  $\{1, 2, 4, 5, 10, 20\}$ . Using 1-based indexing, if p = 3, then 4 is returned. If p > 6, 0 would be returned.

#### **Constraints**

```
1 \le n \le 10^{15}
```

$$1 \le p \le 10^9$$

The first line contains an integer n, the number to factor.

The second line contains an integer p, the 1-based index of the factor to return.

#### Sample Case 0

## Sample Input 0

10

3

### **Sample Output 0**

5

### **Explanation 0**

Factoring n = 10 results in  $\{1, 2, 5, 10\}$ . Return the  $p = 3^{rd}$  factor, 5, as the answer.

### **Sample Case 1**

### Sample Input 1

10

5

#### **Sample Output 1**

0

### **Explanation 1**

Factoring n = 10 results in  $\{1, 2, 5, 10\}$ . There are only 4 factors and p = 5, therefore 0 is returned as the answer.

## Sample Case 2

## Sample Input 2

1

1

### **Sample Output 2**

1

## **Explanation 2**

Factoring n = 1 results in {1}. The p = 1st factor of 1 is returned as the answer.

### For example:

| Input   | Result |
|---------|--------|
| 10      | 5      |
| 10<br>5 | 0      |
| 1       | 1      |

```
1 v def factor(n, p):
 2
        factors = []
        # Find factors of n
 3
 4 ▼
        for i in range(1, int(n**0.5) + 1):
 5 •
            if n % i == 0:
 6
                 factors.append(i)
 7
                 if i != n // i:
                     factors.append(n // i)
 8
 9
        # Sort the factors
10
        factors.sort()
11
        # Return the pth factor if it exists, otherwise return 0
12 🔻
        if p <= len(factors):</pre>
13
            return factors[p - 1]
14
        else:
15
             naturn A
```

```
16
17  # Sample Input
18  n = int(input())
19  p = int(input())
20
21  # Output
22  print(factor(n, p))
```

|          | Input   | Expected | Got |          |
|----------|---------|----------|-----|----------|
| <b>~</b> | 10      | 5        | 5   | <b>~</b> |
| ~        | 10<br>5 | 0        | 0   | <b>~</b> |
| ~        | 1       | 1        | 1   | ~        |

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

11

Question **2**Correct

Mark 1.00 out of

Complete the program to count frequency of each element of an array. Frequency of a particular element will be printed once.

Sample Test Cases

Test Case 1

Input

7

23

45

23

56

45 23

40

Output

23 occurs 3 times

45 occurs 2 times

56 occurs 1 times

40 occurs 1 times

**Answer:** (penalty regime: 0 %)

```
1 

def count_frequency(arr):
        frequency_dict = {}
 3
 4
        # Count frequency of each element
 5 🔻
        for elem in arr:
 6 🔻
            if elem in frequency_dict:
 7
                frequency_dict[elem] += 1
 8
            else:
                frequency_dict[elem] = 1
 9
10
        # Print the frequency of each element
11
12 🔻
        for key, value in frequency_dict.items():
13
            print(f"{key} occurs {value} times")
14
    # Take input
15
    n = int(input())
16
17
    arr = []
18 v for _ in range(n):
        arr.append(int(input()))
19
20
   # Call the function to count frequency
21
    count_frequency(arr)
22
23
```

|          | Input | Expected          | Got               |   |
|----------|-------|-------------------|-------------------|---|
| <b>~</b> | 7     | 23 occurs 3 times | 23 occurs 3 times | ~ |
|          | 23    | 45 occurs 2 times | 45 occurs 2 times |   |
|          | 45    | 56 occurs 1 times | 56 occurs 1 times |   |
|          | 23    | 40 occurs 1 times | 40 occurs 1 times |   |
|          | 56    |                   |                   |   |
|          | 45    |                   |                   |   |
|          | 23    |                   |                   |   |
|          | 40    |                   |                   |   |

Passed all tests! ✓

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

Write a Python program to Zip two given lists of lists.

Input:

m : row size n: column size

list1 and <u>list</u> 2: Two lists

Output

Zipped <u>List</u>: <u>List</u> which combined both list1 and list2

Sample test case

Sample input

2

2

1

3

5

7

2

6

0

Sample Output

[[1, 3, 2, 4], [5, 7, 6, 8]]

**Answer:** (penalty regime: 0 %)

```
1 v def zip_lists(list1, list2):
        zipped_list = list(zip(list1, list2))
        return [sum(sublist, []) for sublist in zipped_list]
 3
 4
 5
    # Input
 6
    m = int(input())
 7
    n = int(input())
 8
 9
    list1 = []
    for _ in range(m):
10 🔻
11
        sublist = []
12 🔻
        for _ in range(n):
            sublist.append(int(input()))
13
14
        list1.append(sublist)
15
    list2 = []
16
    for _ in range(m):
17 ▼
18
        sublist = []
        for _ in range(n):
19 🔻
            sublist.append(int(input()))
20
21
        list2.append(sublist)
22
    # Output
23
    zipped_list = zip_lists(list1, list2)
24
25
    print(zipped_list)
26
27
28
29
```

|   | Input | Expected                     | Got                          |   |
|---|-------|------------------------------|------------------------------|---|
| ~ | 2     | [[1, 2, 5, 6], [3, 4, 7, 8]] | [[1, 2, 5, 6], [3, 4, 7, 8]] | ~ |
|   | 2     |                              |                              |   |
|   | 1     |                              |                              |   |
|   | 2     |                              |                              |   |
|   | 3     |                              |                              |   |
|   | 4     |                              |                              |   |
|   | 5     |                              |                              |   |
|   | 6     |                              |                              |   |
|   | 7     |                              |                              |   |
|   | 8     |                              |                              |   |

Passed all tests! ✓

Correct

Question **4**Correct
Mark 1.00 out of

Given an array of numbers, find the index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal. The array may not be reordered.

#### Example

arr=[1,2,3,4,6]

- the sum of the first three elements, 1+2+3=6. The value of the last element is 6.
- · Using zero based indexing, arr[3]=4 is the pivot between the two subarrays.
- The index of the pivot is 3.

#### Constraints

- $\cdot \qquad 3 \le n \le 10^5$
- $\cdot$  1 \le arr[i] \le 2 \times 10^4, where 0 \le i < n
- · It is guaranteed that a solution always exists.

The first line contains an integer n, the size of the array arr.

Each of the next n lines contains an integer, arr[i], where  $0 \le i < n$ .

Sample Case 0

Sample Input 0

4

1

2

3

Sample Output 0

2

### Explanation 0

- The sum of the first two elements, 1+2=3. The value of the last element is 3.
- · Using zero based indexing, arr[2]=3 is the pivot between the two subarrays.
- · The index of the pivot is 2.

# Sample Case 1

Sample Input 1

3

1

2

Sample Output 1

1

## Explanation 1

- The first and last elements are equal to 1.
- · Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
- $\cdot$  The index of the pivot is 1.

# For example:

| Input | Result |
|-------|--------|
| 4     | 2      |
| 1     |        |
| 2     |        |
| 3     |        |
| 3     |        |
| 3     | 1      |
| 1     |        |
| 2     |        |
| 1     |        |

```
6
        for i in range(n):
            total_sum -= arr[i] # Update total_sum to exclude the current element
 7
 8
            if left_sum == total_sum:
 9
                return i
10
            left_sum += arr[i]
11
12
        return -1 # No pivot found
13
    # Read the size of the array
14
15
   n = int(input())
16
    # Read the array elements
17
18
    arr = [int(input()) for _ in range(n)]
19
   # Find the pivot index and print the result
20
21 print(find_pivot_index(arr))
22
```

|          | Input | Expected | Got |   |
|----------|-------|----------|-----|---|
| <b>~</b> | 4     | 2        | 2   | ~ |
|          | 1     |          |     |   |
|          | 2     |          |     |   |
|          | 3     |          |     |   |
|          | 3     |          |     |   |
| ~        | 3     | 1        | 1   | ~ |
|          | 1     |          |     |   |
|          | 2     |          |     |   |
|          | 1     |          |     |   |

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

11

Question **5**Correct
Mark 1.00 out of 1.00

Write a Python program to check if a given <u>list</u> is strictly increasing or not. Moreover, If removing only one element from the <u>list</u> results in a strictly increasing <u>list</u>, we still consider the <u>list</u> true

Input:

n : Number of elements

List1: List of values

Output

Print "True" if <u>list</u> is strictly increasing or decreasing else print "False"

Sample Test Case

Input

7

1

2

3

0

4

5

U

Output

True

**Answer:** (penalty regime: 0 %)

```
1 ▼ def is_strictly_increasing(lst):
        # Check if the list is strictly increasing or strictly decreasing
        increasing = all(lst[i] < lst[i + 1] for i in range(len(lst) - 1))</pre>
 3
        decreasing = all(lst[i] > lst[i + 1] for i in range(len(lst) - 1))
 4
 5
        return increasing or decreasing
 6
    def is_strictly_increasing_with_one_removed(lst):
 8 •
 9
        # Check if removing any element results in a strictly increasing list
        for i in range(len(lst)):
10
11
            temp_list = lst[:i] + lst[i+1:]
            if is_strictly_increasing(temp_list):
12 •
                return True
13
14
15
        return False
16
17
    # Test Case
18 🔻
    if __name__ == "__main__":
        n = int(input()) # Number of elements
19
        lst = [int(input()) for _ in range(n)] # List of values
20
21
        # Check if the list is strictly increasing, strictly decreasing, or if removing one element results in a str
22
        if is_strictly_increasing(lst) or is_strictly_increasing_with_one_removed(lst):
23 ·
            print("True")
24
25
        else:
26
            print("False")
27
```

|   | Input | Expected | Got  |          |
|---|-------|----------|------|----------|
| ~ | 7     | True     | True | <b>~</b> |
|   | 1     |          |      |          |
|   | 2     |          |      |          |
|   | 3     |          |      |          |
|   | 0     |          |      |          |
|   | 4     |          |      |          |
|   | 5     |          |      |          |
|   | 6     |          |      |          |
| ~ | 4     | True     | True | ~        |
|   | 2     |          |      |          |
|   | 1     |          |      |          |
|   | 0     |          |      |          |
|   | -1    |          |      |          |

Passed all tests! 🗸

Correct

Question **6**Correct
Mark 1.00 out of

Consider a program to insert an element / item in the sorted array. Complete the logic by filling up required code in editable section. Consider an array of size 10. The eleventh item is the data is to be inserted.

## Sample Test Cases

#### Test Case 1

## Input

# Output

## ITEM to be inserted:2

After insertion array is:

## Test Case 2

## Input

### Output

## ITEM to be inserted:44

After insertion array is:

```
9
    n=10
10
   arr=[]
11 v for i in range(n):
       element=int(input())
12
       arr.append(element)
13
14 add=int(input())
print(f"ITEM to be inserted:{add}")
16 arr.append(add)
17 | sorted_arr=sort(arr)
18 print("After insertion array is:")
19 v for i in range(len(sorted_arr)):
20
        print(sorted_arr[i])
```

| Input | Expected  | Got   |  |
|-------|---|---|--|
| 1     | ITEM to be inserted:2   | ITEM to be inserted:2   | ~  |
| 3     | After insertion array is:   | After insertion array is:   |  |
| 4     | 1   | 1   |  |
| 5     | 2   | 2   |  |
| 6     | 3   | 3   |  |
| 7     | 4   | 4   |  |
| 8     | 5   | 5   |  |
| 9     | 6   | 6   |  |
| 10    | 7   | 7   |  |
| 11    | 8   | 8   |  |
| 2     | 9   | 9   |  |
|       | 10  | 10  |  |
|       | 11  | 11  |  |
| 11    | ITEM to be inserted:44  | ITEM to be inserted:44  | ~  |
| 22    | After insertion array is:   | After insertion array is:   |  |
| 33    | 11  | 11  |  |
| 55    | 22  | 22  |  |
| 66    | 33  | 33  |  |
| 77    | 44  | 44  |  |
| 88    | 55  | 55  |  |
| 99    | 66  | 66  |  |
| 110   | 77  | 77  |  |
| 120   | 88  | 88  |  |
| 44    | 99  | 99  |  |
|       | 110   | 110   |  |
|       | 120   | 120   |  |
|       | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>2<br>2<br>33<br>55<br>66<br>77<br>88<br>99<br>110<br>120 | After insertion array is:  1 5 2 6 3 7 4 8 5 9 6 10 7 11 8 2 9 10 11  ITEM to be inserted:44 22 After insertion array is: 33 11 55 22 66 33 77 44 88 55 99 66 110 77 120 88 44 99 110 | After insertion array is: After insertion array is:  1 |

Passed all tests! 🗸

Correct

Question **7**Incorrect
Mark 0.00 out of 1.00

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[i] - A[j] = k, i != j. Input Format

- 1. First line is number of test cases T. Following T lines contain:
- 2. N, followed by N integers of the array
- 3. The non-negative integer k

### Output format

Print 1 if such a pair exists and 0 if it doesn't.

#### Example

Input

1

3

3

4

Output:

1

Input

1

3

1

3

5

99

Output 0

## For example:

| Input | Result |
|-------|--------|
| 1     | 1      |
| 3     |        |
| 1     |        |
| 3     |        |
| 5     |        |
| 4     |        |
| 1     | 0      |
| 3     |        |
| 1     |        |
| 3     |        |
| 5     |        |
| 99    |        |

```
1 ▼ def find_pair_with_difference(arr, k):
        i = 0
 3
        j = 1
 4
        n = len(arr)
 5
 6
        while i < n and j < n:
 7 .
            if i != j and arr[j] - arr[i] == k:
 8
            elif arr[j] - arr[i] < k:</pre>
 9 ,
10
                 j += 1
11 🔻
            else:
                i += 1
12
13
                 # Ensure i is always less than j
14
15
                 if i == j:
                    j += 1
16
17
18
        return 0
19
    # Function to process each test case
20
21 ▼ def process_test_case():
22
        # Read input
23
        n = int(input()) # Number of integers
        arr = list(map(int, input().split())) # Array of integers
24
25

    - int(innut()) # Difference
```

```
V - THE (THEAT ()) # DILLELENCE
26
27
        # Find if such a pair exists
        result = find_pair_with_difference(arr, k)
28
29
        # Print the result
30
31
        print(result)
32
33
    # Read the number of test cases
    t = int(input())
34
35
36
    # Process each test case
37 ▼
    for _ in range(t):
        process_test_case()
38
39
40
41
42
```

|   | Input | Expected | Got |   |
|---|-------|----------|-----|---|
| × | 1     | 1        | 0   | × |
|   | 3     |          |     |   |
|   | 1     |          |     |   |
|   | 3     |          |     |   |
|   | 5     |          |     |   |
|   | 4     |          |     |   |
| ~ | 1     | 0        | 0   | ~ |
|   | 3     |          |     |   |
|   | 1     |          |     |   |
|   | 3     |          |     |   |
|   | 5     |          |     |   |
|   | 99    |          |     |   |

Some hidden test cases failed, too.

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

1

Question **8**Correct
Mark 1.00 out of 1.00

Output is a merged array without duplicates.

## **Input Format**

N1 - no of elements in array 1

Array elements for array 1

N2 - no of elements in array 2

Array elements for array2

### **Output Format**

Display the merged array

## Sample Input 1

10

### Sample Output 1

1 2 3 4 5 6 9 10

```
1 * def merge_and_remove_duplicates(arr1, arr2):
        merged_set = set(arr1 + arr2)
        merged_list = sorted(list(merged_set))
 3
 4
        print(*merged_list)
 5
    # Input
 6
 7
   n1 = int(input())
   arr1 = []
 8
    for _ in range(n1):
 9 🔻
10
        arr1.append(int(input()))
11
    n2 = int(input())
12
13
    arr2 = []
14 ▼
    for _ in range(n2):
15
        arr2.append(int(input()))
16
    # Output
17
18 merge_and_remove_duplicates(arr1, arr2)
```

|          |       | t Expected |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|----------|-------|------------|---|---|---|---|----|---|---|---|---|---|----|---|----|---|---|----|---|---|----|---|----|---|----|------|---|---|---|---|----|-----|----|----|---|---|----|----|----|----------|
|          | Input |            | E | X | p | e | ·C | t | e | d |   |   |    |   |    |   |   |    |   |   |    |   |    | G | io | t    |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
| <b>~</b> | 7     |            | 1 | : | 3 | _ | 1  | 5 | 5 | 7 | 8 | 3 | 16 | 9 | 11 | 1 | 2 | 13 | 2 | 2 | 36 | ) | 35 | 1 | 3  | } _2 | 1 | 5 | 7 | 8 | 16 | ) 1 | L1 | 12 | 1 | 3 | 22 | 30 | 35 | <u> </u> |
|          | 4     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 7     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 8     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 10    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 12    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 30    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 35    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 9     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 1     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 3     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 4     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 5     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 7     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 8     |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 11    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 13    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          | 22    |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |
|          |       |            |   |   |   |   |    |   |   |   |   |   |    |   |    |   |   |    |   |   |    |   |    |   |    |      |   |   |   |   |    |     |    |    |   |   |    |    |    |          |

Passed all tests! 🗸

Correct

Question **9**Correct
Mark 1.00 out of 1.00

Write a program to print all the locations at which a particular element (taken as input) is found in a <u>list</u> and also print the total number of times it occurs in the <u>list</u>. The location starts from 1.

For example, if there are 4 elements in the array:

5 6 5

If the element to search is 5 then the output will be:

5 is present at location 15 is present at location 35 is present 2 times in the array.

Sample Test Cases

Test Case 1

Input

Output

5

5 is present at location 1.5 is present at location 3.5 is present 2 times in the array.

Test Case 2

Input

Output

50 is not present in the array.

```
1
    def find_element_locations(arr, target):
 3
        locations = [] # List to store locations where target is found
        count = 0 # Variable to store the count of occurrences
        for i, num in enumerate(arr, start=1): # Loop through the array with 1-based indexing
 6
 7
            if num == target:
                locations.append(i) # Append the location to the list
9
                count += 1 # Increment the count
10
        if count > 0:
11 🔻
            # Print each location and count of occurrences separately
12
13 -
            for location in locations:
                print(f"{target} is present at location {location}.")
14
15
            print(f"{target} is present {count} times in the array.")
16
17
            print(f"{target} is not present in the array.")
18
19
    # Test Case
    if __name__ == "__main__":
20 🔻
        n = int(input()) # Input: number of elements in the array
21
        arr = [int(input()) for _ in range(n)] # Input: array elements
22
        target = int(input()) # Input: element to search
23
24
25
        find_element_locations(arr, target)
26
```

|          | Input | Expected                           | Got                                |   |
|----------|-------|------------------------------------|------------------------------------|---|
| <b>✓</b> | 4     | 5 is present at location 1.        | 5 is present at location 1.        | ~ |
|          | 5     | 5 is present at location 3.        | 5 is present at location 3.        |   |
|          | 6     | 5 is present 2 times in the array. | 5 is present 2 times in the array. |   |
|          | 5     |                                    |                                    |   |
|          | 7     |                                    |                                    |   |
|          | 5     |                                    |                                    |   |
| <b>/</b> | 5     | 50 is not present in the array.    | 50 is not present in the array.    | ~ |
|          | 67    |                                    |                                    |   |
|          | 80    |                                    |                                    |   |
|          | 45    |                                    |                                    |   |
|          | 97    |                                    |                                    |   |
|          | 100   |                                    |                                    |   |
|          | 50    |                                    |                                    |   |

Passed all tests! 🗸

Correct

Question **10**Correct
Mark 1.00 out of

Program to print all the distinct elements in an array. Distinct elements are nothing but the unique (non-duplicate) elements present in the given array.

Input Format:

First line take an Integer input from stdin which is array length n.

Second line take n Integers which is inputs of array.

Output Format:

Print the Distinct Elements in Array in single line which is space Separated

Example Input:

5

1

2

2

3

4

Output:

1234

Example Input:

6

1

1

2

2

3

3 Output:

123

# For example:

| Input | Result |   |   |   |
|-------|--------|---|---|---|
| 5     | 1      | 2 | 3 | 4 |
| 1     |        |   |   |   |
| 2     |        |   |   |   |
| 2     |        |   |   |   |
| 3     |        |   |   |   |
| 4     |        |   |   |   |
| 6     | 1      | 2 | 3 |   |
| 1     |        |   |   |   |
| 1     |        |   |   |   |
| 2     |        |   |   |   |
| 2     |        |   |   |   |
| 3     |        |   |   |   |
| 3     |        |   |   |   |

```
1    h = int(input())
2    arr = [int(input()) for _ in range(n)]
3    d
4    distinct_elements = set(arr)
6    print(*distinct_elements)
7
```

|          | Input | Expected | Got     |          |  |  |  |
|----------|-------|----------|---------|----------|--|--|--|
| ~        | 5     | 1 2 3 4  | 1 2 3 4 | <b>~</b> |  |  |  |
|          | 1     |          |         |          |  |  |  |
|          | 2     |          |         |          |  |  |  |
|          | 2     |          |         |          |  |  |  |
|          | 3     |          |         |          |  |  |  |
|          | 4     |          |         |          |  |  |  |
| <b>~</b> | 6     | 1 2 3    | 1 2 3   | <b>~</b> |  |  |  |
|          | 1     |          |         |          |  |  |  |
|          | 1     |          |         |          |  |  |  |
|          | 2     |          |         |          |  |  |  |
|          | 2     |          |         |          |  |  |  |
|          | 3     |          |         |          |  |  |  |
|          | 3     |          |         |          |  |  |  |

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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