# <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	Wednesday, 5 June 2024, 1:58 PM	
State	Finished	
Completed on	Friday, 7 June 2024, 1:58 PM	
Time taken	2 days	
Marks	0.00/10.00	
Grade	<b>0.00</b> out of 100.00	

/24, 9:43 PM	Week6_Coding: Attempt review   REC-PS
Question 1	
Not answered	
Mark 0.00 out of 1.00	
Write a Python program to check if a gir strictly increasing <u>list</u> , we still consider the	ven <u>list</u> is strictly increasing or not. Moreover, If removing only one element from the <u>list</u> results in a he <u>list</u> true
Input:	
n : Number of elements	
List1: <u>List</u> 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	
6	
Output	
True	
• ( ) ( )	
Answer: (penalty regime: 0 %)	
1	
T. Control of the Con	

24, 9:43 PIVI	weeko_Coding: Attempt review   REC-PS
Question <b>2</b>	
Not answered	
Mark 0.00 out of 1.00	
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	
Anguary (nanalty ragina; 0.9/)	
<b>Answer:</b> (penalty regime: 0 %)	
1	

Question **3** 

Not answered

Mark 0.00 out of 1.00

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

- $\cdot \qquad 3 \le n \le 10^5$
- ·  $1 \le arr[i] \le 2 \times 10^4$ , 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.
- $\cdot$  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

1

## 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.
- · The index of the pivot is 1.

# For example:

Input	Result
4	2
1	
2	
3	
3	
_	
3	1
1	
2	
1	

Answer: (penalty regime: 0 %)

1	

Question <b>4</b>	
Not answered	
Mark 0.00 out of 1.00	

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: 

<b>Answer:</b> (penalty regime: 0 %)		
1		
2		
		,

	Input	Expected	Got	
×	1	ITEM to be inserted:2	[()]	×
	3	After insertion array is:		
	4	1		
	5	2		
	6	3		
	7	4		
	8	5		
	9	6		
	10	7		
	11	8		
	2	9		
		10		
		11		

	Input	Expected	Got	
×	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		
		120		

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.

Question **5**Not answered

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

1

3

5

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	

<b>Answer:</b> (penalty regime: 0 %)		
1		

Question <b>6</b>
Not answered

Mark 0.00 out of 1.00

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

Output:

123

# For example:

Input	R	es	uŀ	t
5	1	2	3	4
1				
2				
2				
3				
4				
6	1	2	3	
1				
1				
2				
2				
3				
3				

<b>Answer:</b> (penalty regime: 0 %)	
1	



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

5

1

2

3

6

9

4 2

4

5

10

# Sample Output 1

1 2 3 4 5 6 9 10

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

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724, 9.43 I W	Weeko_County. Attempt review   NEC-1 3
Question <b>8</b>	
Not answered	
Mark 0.00 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 List: List which combined both list1 and list2	
Sample test case	
Sample input	
2	
2	
1	
3	
5	
7	
2	
4	
6	
8 Sample Output	
[[1, 3, 2, 4], [5, 7, 6, 8]]	
Answer: (penalty regime: 0 %)	
1	

6/19/24, 9:43 PM Week6\_Coding: Attempt review | REC-PS Question  ${\bf 9}$ Not answered Mark 0.00 out of 1.00 Write a program to print all the locations at which a particular element (taken as input) is found in a list 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 7 If the element to search is 5 then the output will be:

Sample Test Cases

5 is present at location 1 5 is present at location 3 5 is present 2 times in the array.

Test Case 1

## Input

4 5

6

5

7 5

Output

5 is present at location 1.

5 is present at location 3.

5 is present 2 times in the array.

Test Case 2

# Input

5

67

80

45 97

100

50

Output

50 is not present in the array.

Answer: (penalty regime: 0 %)

1

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Question 10

Incorrect

Mark 0.00 out of 1.00

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 3	5
10 5	0
1	1

Answer: (penalty regime: 0 %)

```
a=int(input())
 2
    x=[]
    for i in range (1,(a+1))
 3
 4
        if (a%i)==0
5
        x.append(i)
    b=int(input())
 6
7 ▼ if b<=len(x):</pre>
8
       y=x[(b-1)]
9
       print(y)
10
    else:
11
        print(0)
```

Incorrect

Marks for this submission: 0.00/1.00.

# ■ Week6\_MCQ

Jump to...

Tuples ►