

6/19/24, 9:49 PM	Started on	Saturday, 1 June 2024, 7:29 PM	Week6_Coding: Attempt review REC-PS
	State	Finished	
	Completed on	Saturday, 1 June 2024, 11:37 PM	
	Time taken	4 hours 8 mins	
	Marks	10.00/10.00	
	Grade	100.00 out of 100.00	

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 3 1 3 5 4	1
1 3 1 3 5 99	0

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 for p in range(0,a):
3     x=int(input())
4     b=[]
5     for i in range(0,x):
6         y=int(input())
```

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14
15
16
17

```
if c>0:
    print(1)
else:
    print(0)
```

	Input	Expected	Got	
✓	1 3 1 3 5 4	1	1	✓
✓	1 3 1 3 5 99	0	0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Sample Test Cases

Test Case 1

Input

1
3
4
5
6
7
8
9
10
11
2

Output

ITEM to be inserted:2
After insertion array is:

1
2
3
4
5
6
7
8
9
10
11

Test Case 2

Input

11
22
33
55
66
77
88
99
110
120
44

Output

ITEM to be inserted:44
After insertion array is:

11
22
33
44

Answer: (penalty regime: 0 %)

```

1 | a=[]
2 | for i in range(0,10):
3 |     a.append(int(input()))
4 | n=int(input())
5 | a.append(n)
6 | a.sort()
7 | print("ITEM to be inserted:",n,sep="")
8 | print("After insertion array is:")
9 | for i in a:
10 |     print(i)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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 list, 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

$1 \leq n \leq 10^{15}$

$1 \leq p \leq 10^9$

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 $p = 3^{\text{rd}}$ 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 $p = 1^{\text{st}}$ factor of 1 is returned as the answer.

For example:

Input	Result
10 3	5
10 5	0

```
1 n=int(input())
2 j=int(input())
3 a=[]
4 for i in range(1,n+1):
5     if n%i==0:
6         a.append(i)
7 if j<=len(a):
8     print(a[j-1])
9 else:
10    print("0")
```

	Input	Expected	Got	
✓	10 3	5	5	✓
✓	10 5	0	0	✓
✓	1 1	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

m : row size

n: column size

list1 and [list 2](#) : Two lists

Output

Zippped [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 m=int(input())
2 n=int(input())
3 list1=[]
4 list2=[]
5 for _ in range(m):
6     row= [int(input()) for _ in range(n)]
7     list1.append(row)
8
9 for _ in range(m):
10    row=[int(input()) for _ in range(n)]
11    list2.append(row)
12 zipped_list=[]
13 for sublist1, sublist2 in zip(list1,list2):
14     zipped_list.append(sublist1 + sublist2)
15 print(zipped_list)
```


2
3
4
5
6
7
8

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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:

1 2 3 4

Example Input:

6

1

1

2

2

3

3

Output:

1 2 3

For example:

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

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 m=set(a)
```

	Input	Expected	Got	
✓	5 1 2 2 3 4	1 2 3 4	1 2 3 4	✓
✓	6 1 1 2 2 3 3	1 2 3	1 2 3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Input:

n : Number of elements

List1: [List](#) of values

Output

Print "True" if [list](#) 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 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 print('True')
```

	Input	Expected	Got	
✓	7 1 2 3 0 4 5 6	True	True	✓

	-1			
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Passed all tests! ✓

Week6_Coding: Attempt review | REC-PS

Correct

Marks for this submission: 1.00/1.00.

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

- $3 \leq n \leq 10^5$
- $1 \leq \text{arr}[i] \leq 2 \times 10^4$, where $0 \leq i < n$
- 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 $0 \leq i < n$.

Sample Case 0

Sample Input 0

4
1
2
3
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
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:

3	
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1	
2	
1	

Answer: (penalty regime: 0 %)

```

1 n=int(input())
2 a=[]
3 for i in range(n):
4     a.append(int(input()))
5 total=sum(a)
6 left=0
7 for i in range(n):
8     total-=a[i]
9     if left==total:
10        print(i)
11        break
12    left+=a[i]

```

	Input	Expected	Got	
✓	4 1 2 3 3	2	2	✓
✓	3 1 2 1	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 u=[]
7 for i in a:
8     if i not in u:
9         u.append(i)
10 for i in u:
11     print(i,"occurs",a.count(i),"times")
```

	Input	Expected	Got	
✓	7 23 45 23 56 45 23 40	23 occurs 3 times 45 occurs 2 times 56 occurs 1 times 40 occurs 1 times	23 occurs 3 times 45 occurs 2 times 56 occurs 1 times 40 occurs 1 times	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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:

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

Sample Test Cases

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 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 X=int(input())
7 for i in range(len(a)):
8     if a[i] is X:
9         print(X,f"is present at location {i+1}.")
10 if X not in a:
11     print(X "is not present in the array ")
```

	Input	Expected	Got	
✓	4 5 6 5 7 5	5 is present at location 1. 5 is present at location 3. 5 is present 2 times in the array.	5 is present at location 1. 5 is present at location 3. 5 is present 2 times in the array.	✓
✓	5 67 80 45 97 100 50	50 is not present in the array.	50 is not present in the array.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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 %)

```
1 N1 = int(input())
2 array1= []
3 for _ in range(N1):
4     array1.append(int(input()))
5 N2 = int(input())
6 array2= []
7 for _ in range(N2):
8     array2.append(int(input()))
9 merged_array= array1+array2
10 merged_array=list(set(merged_array))
11 merged_array.sort()
12 for i in range(len(merged_array)):
13     print(merged_array[i],end=" ")
```

6/19/24, 9:49 PM	3 6 9 4 2 4 5 10																Week6_Coding: Attempt review															REC-PS
	✓	7 4 7 8 10 12 30 35 9 1 3 4 5 7 8 11 13 22	1 3 4 5 7 8 10 11 12 13 22 30 35															1 3 4 5 7 8 10 11 12 13 22 30 35														

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Tuples ▶