

	Time taken	7 hours 32 mins	
6/19/24, 7:14 PM	Marks	10.00/10.00	Week6_Coding: Attempt review REC-PS
	Grade	100.00 out of 100.00	

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

	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.

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 a = int(input())
2 b = []
3 for i in range(a):
4     e = int(input())
5     b.append(e)
6 c = int(input())
7 d = []
8 for i in range(c):
9     f = int(input())
10    d.append(f)
11 b.extend(d)
12 b.sort()
13 g = []
14 for i in b:
15     if i not in g:
16         g.append(i)
17 for i in g:
18     print(i,end=" ")
19
20
```

6/19/24, 7:14 PM	4															Week6_Coding: Attempt review REC-PS													
	5																												
✓	6																												
	7	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	✓	
	4																												
	7																												
	8																												
	10																												
	12																												
	30																												
	35																												
	9																												
	1																												
	3																												
	4																												
	5																												
	7																												
	8																												
	11																												
	13																												
	22																												

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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

Answer: (penalty regime: 0 %)

```
1 li1=[int(input()) for i in range(10)]
2 b=int(input())
3 li1.append(b)
4 li1.sort()
5 print(f'ITEM to be inserted:{b}')
6 print("After insertion array is: ")
7 for i in li1:
8     print(i)
9
```

	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	✓

6/19/24, 7:14 PM	120	88	88	Week6_Coding: Attempt review REC-PS
	44	99	99	
	110	110	110	
	120	120	120	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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 m= int(input())
2 n=int(input())
3 l1=[]
4 l2=[]
5 l3=[]
6 for i in range(m*n*n):
7     l1.append(int(input()))
8 for i in range(len(l1)):
9     if i<2 or 4<=i<=5:
10        l2.append(l1[i])
11    else:
12        l3.append(l1[i])
13 f=[]
14 f.append(l2)
15 f.append(l3)
16 print(f)
```

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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

6/19/24, 7:14 PM the sum of the first three elements, 1+2+3=6. The value of the last element is 6. Week6_Coding_Attempt-review | REC-PS

- 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.

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 x=[]
3 for _ in range(n):
4     x.append(int(input()))
5 t=sum(x)
6 l=0
7 r=t -x[0]
8 for i in range(1,n):
9     l+=x[i-1]
10    r-=x[i]
11    if l==r:
12        print(i)
13        break
```

	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.

2. N, followed by N integers of the array
3. The non-negative integer k

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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

```
12 while end < n:
13     if start==end:
14         end +=1
15     elif a[end]-a[start]==k:
16         re.append(1)
17         found=True
18         break
19     elif a[end]-a[start]<k:
20         end +=1
21     else:
22         start+=1
23 if not found:
24     re.append(0)
25 for result in re:
26     print(result)
```

	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.

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 li1=[]
3 for i in range(n):
```

	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.

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 e = int(input())
2 a = []
3 for i in range(e):
4     b = int(input())
5     a.append(b)
6 c = []
7 for i in a:
8     if i not in c:
9         c.append(i)
10 for i in c:
11     d = a.count(i)
12     print(f'{i} occurs {d} times')
13
```

Correct

Marks for this submission: 1.00/1.00.

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 li=[]
3 for i in range(n):
4     li.append(int(input()))
5 li.sort()
6 res=all(i< j for i,j in zip(li,li[1:]))
7 print(res)
```

6/19/24, 7:14 PM	✓	4	True	True	✓
		1			
		0			
		-1			

Week6_Coding: Attempt review | REC-PS

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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:

```

1 a = int(input())
2 b = int(input())
3 c = []
4 for i in range(1,a+1):
5     if a%i==0:
6         c.append(i)
7 if len(c)>=b:
8     print(c[b-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.

◀ Week6_MCQ

Jump to...

Tuples ►