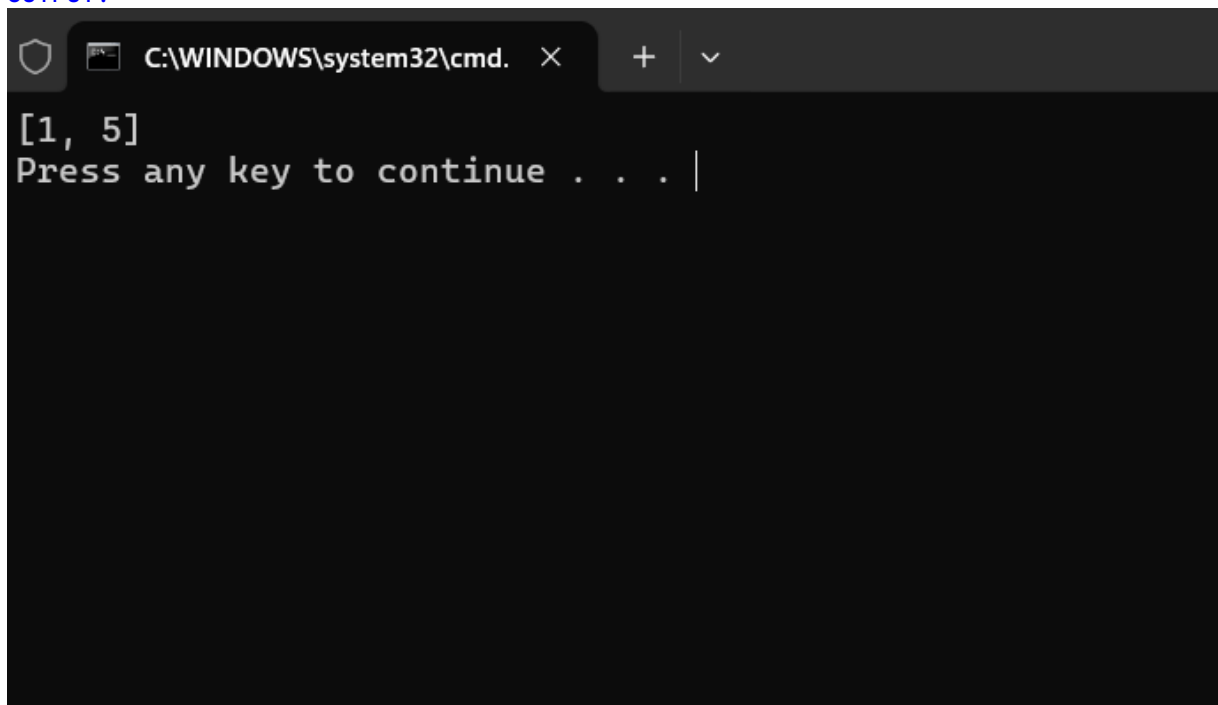


**53) Intersection of Three Sorted Arrays** Given three integer arrays arr1, arr2 and arr3 sorted in strictly increasing order, return a sorted array of only the integers that appeared in all three arrays.

**CODE:**

```
def inter(a,b,c):  
    d=[]  
    for i in a:  
        if i in b:  
            if i in c:  
                d.append(i)  
    return d  
a=[1,2,3,4,5]  
b=[1,2,5,7,9]  
c=[1,3,4,5,8]  
print(inter(a,b,c))  
OUTPUT:
```

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the Python code: '[1, 5]' followed by the prompt 'Press any key to continue . . . |'.

```
C:\WINDOWS\system32\cmd. [X] + v  
[1, 5]  
Press any key to continue . . . |
```

**TIME COMPLEXITY :  $O(n^3)$**