13. 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 arrays_intersection(arr1, arr2, arr3):
    i, j, k=0,0,0
    result=[]
    while i<len(arr1) and j<len(arr2) and k<len(arr3):
        if arr1[i]==arr2[j]==arr3[k]:
            result.append(arr1[i])
            i+=1
            j+=1
            k+=1
        else:
            if arr1[i] < arr2[j]:
                i+=1
            elif arr2[j] < arr3[k]:
                j+=1
            else:
                k+=1
    return result
arr1 = [1,2,3,4,5]
arr2 = [1,2,5,7,9]
arr3 = [1,3,4,5,8]
print(arrays_intersection(arr1,arr2,arr3))
```

output:

Time complexity:

F(n)=o(n)