## Day 10 before class rev

11:01

19 November 2022

### Common elements □

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Easy Accuracy: 22.16% Submissions: 100k+ Points: 2

Given three arrays sorted in increasing order. Find the elements that are common in all three arrays.

**Note:** can you take care of the duplicates without using any additional Data Structure?

### Example 1:

#### Input:

n1 = 6;  $A = \{1, 5, 10, 20, 40, 80\}$ 

n2 = 5;  $B = \{6, 7, 20, 80, 100\}$ 

n3 = 8; C = {3, 4, 15, 20, 30, 70, 80, 120}

Output: 20 80

**Explanation:** 20 and 80 are the only common elements in A, B and C.

# Common elements are 20 80

else if (AITI) < A2(1)) { gûtt",
ekse y (Aztj°] < Az[k])S (According to Algorithm Agorithm) Expected

output 3

So we think something to solve int.

Small update in answer nector we have to make.

```
if(A[i] == B[j] && B[j] == C[k]){
    if(ans.size() != 0){
        if(ans.back() != A[i]){
            ans.push_back(A[i]);
        }
    }else{
        ans.push_back(A[i]);
    }
    i++;j++;k++;
}
```

Given an unsorted array **Arr** of **N** positive and negative numbers. Your task is to create an array of alternate positive and negative numbers without changing the relative order of positive and negative numbers.

**Note:** Array should start with a positive number.

### Example 1:

Input:

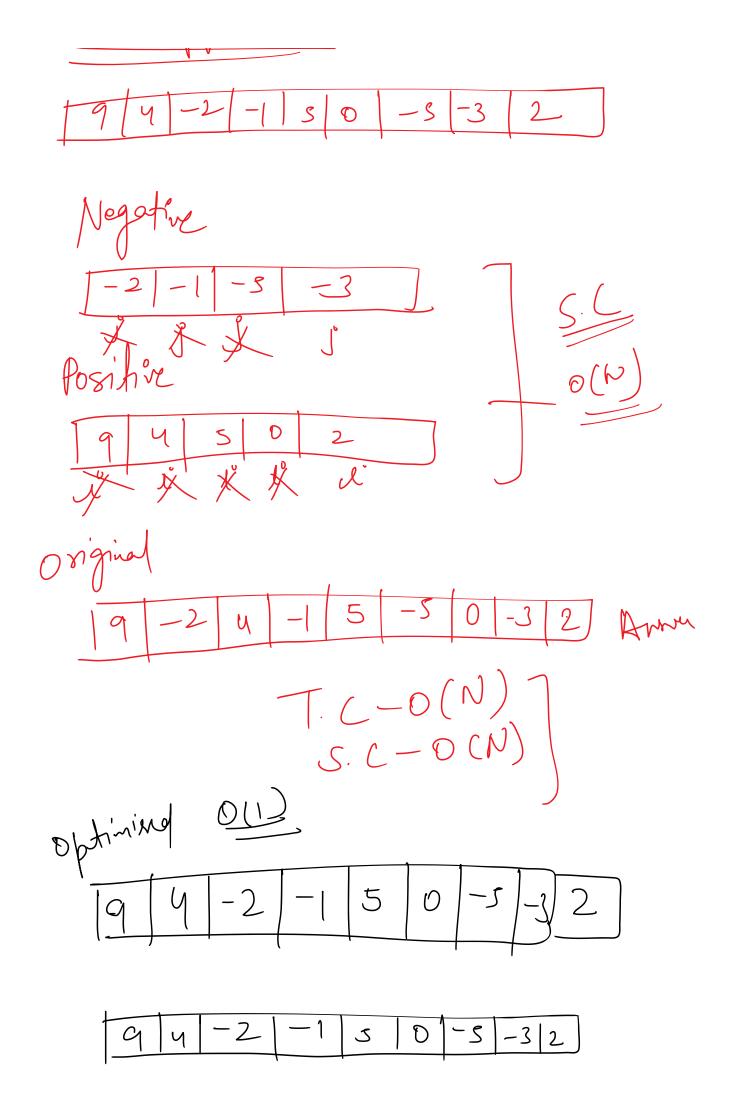
N = 9

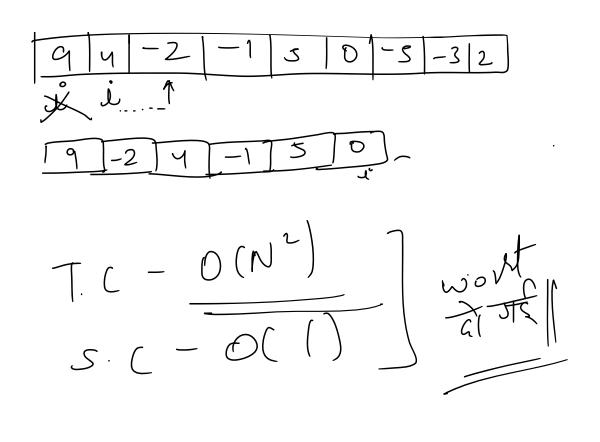
Arr[] = {9, 4, -2, -1, 5, 0, -5, -3, 2}

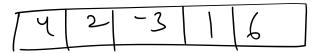
Output:

9 -2 4 -1 5 -5 0 -3 2

Naive Approach

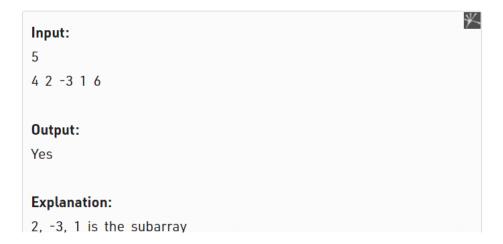






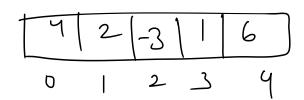
Given an array of positive and negative numbers. Find if there is a **subarray** (of size at-least one) with **0** sum.

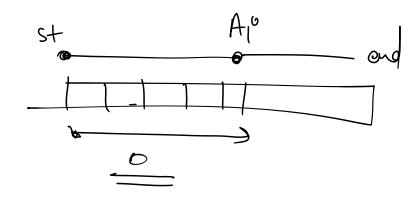
## Example 1:



## Explanation:

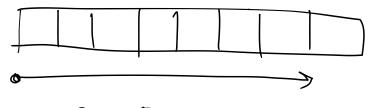
2, -3, 1 is the subarray with sum 0.

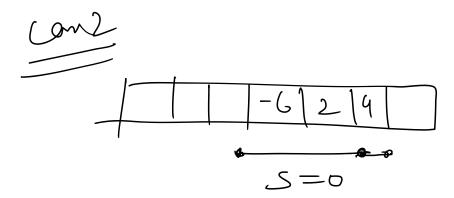












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