C++ STLs / JAVA JCF

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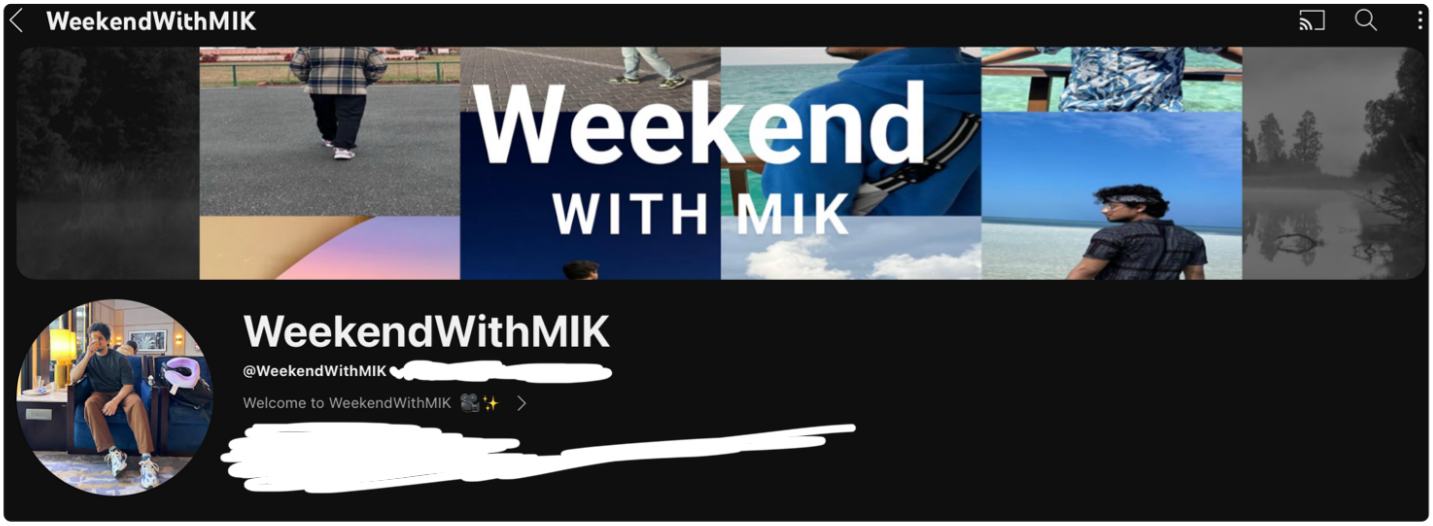


Motivation :-

If you really have the will power to learn things, there is nothing that can stop you from growing.

MIK...

2529. Maximum Count of Positive Integer and Negative Integer

Easy | Topics | Companies | Hint

Given an array `nums` sorted in **non-decreasing** order, return *the maximum between the number of positive integers and the number of negative integers.*

- In other words, if the number of positive integers in `nums` is `pos` and the number of negative integers is `neg`, then return the maximum of `pos` and `neg`.

Note that `0` is neither positive nor negative.

Example :- nums = [-3, -2, -1, 0, 0, 1, 2]

Output :- 3

max (2, 3)

Using C++ STL Count_if

```
count_if(begin(nums), end(nums), lambdaP);
count_if(begin(nums), end(nums), lambdaN);
```

```
auto lambdaP = [](int num) {
                    return num > 0;
               };

auto lambdaN = [](int num) {
                    return num < 0;
               };

return max(P, N);
```

JAVA version ...

nums → +ve / -ve

Stream → Operations (counting, filtering) etc.

filter
count

```
P=(int)Arrays.stream(nums).filter(lambdaP).count();
```
Predicate
long

```
N=(int)Arrays.stream(nums).filter(lambdaN).count()
```
Predicate
long

```
IntPredicate lambdaP = num -> num>0;
IntPredicate lambdaN = num -> num<0;
```

```
return Math.max(P,N);
```

T.C = O(N)

Sorted.

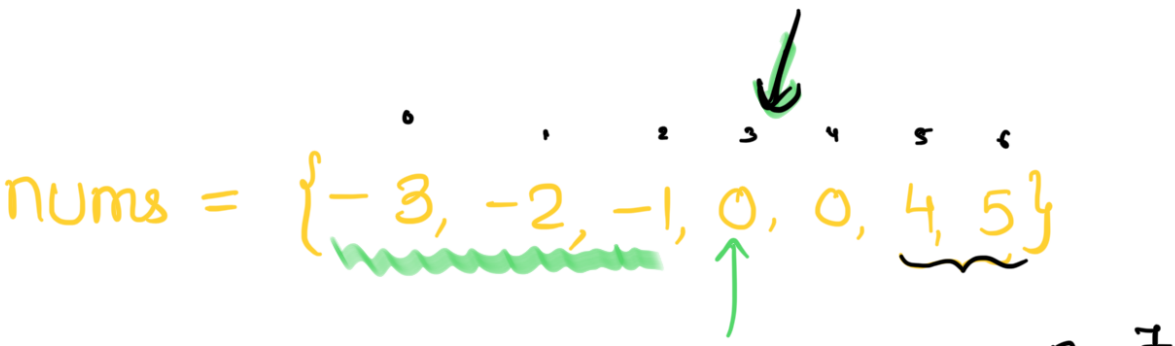
S.C = O(1)

log(N).

Follow UP :- log(N)

sorted.

(Binary Search)

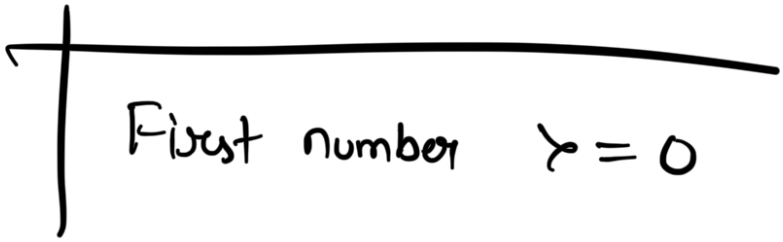


"First number >= 1"

n - 5 = 7 - 5 = 2

int firstP = lower_bound(begin(nums), end(nums), 1)

- begin(num);



int FirstZero = lower_bound(begin(nums), end(nums), 0);

- begin(nums);

max(n-FirstP, FirstZero);

n-FirstP → # +ves

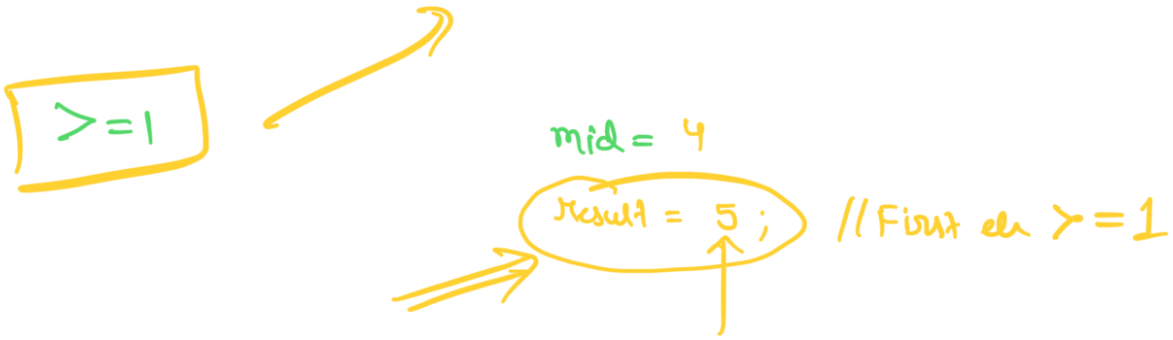
FirstZero → # -ves

Java...

Arrays.BinarySearch().

lower_bound.

nums = {-3, -2, -1, 0, 0, 4, 5}



T.C = O(log(n))

S.C = O(1).