Arrays Challenge - Smallest Positive Missing Number (Amazon, Samsung, Snapdeal, Accolite)

Problem

Find the smallest positive missing number in the given array.

Example: [0, -10, 1, 3, -20], Ans = 2

Intuition

If in O(1), we can tell if an element is present in an array, then our task will be simpler.

For that, we will maintain a Check[] array, that will if an element x is present in the array or not.

It will be of boolean type as we only need to check the presence or absence of the number.

Steps to Solve:

- 1. Build the Check[] array initialized with False at all indices.
- 2. By iterating over the array and marking non-negative a[i] as true i.e.

- 3. Iterate in the Check[] from i=1, BREAK the loop when you find check[i] = False and store that i in the ans variable.
- 4. Output the ans.

Example:

Given Array: [0, -9, 1, 3, -4, 5]



<u>Iterations</u>

• At i = 0:							
Given Array:	0	-9	1	3	-4	5	
	1						
check[]:	T	F	F	F	F	F	
	(0)	(1)	(2)	(3)	(4)	(5)	











