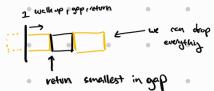
Initial Notes

- If there are no numbers from 0... n, where n + 1, the solution is 1

scenarios to consider

veturn 1 walk up, o(n)

veturn max+1



Rostvictions

- O(N) time -> sorting is not an option
 L elements during martin will loc besorted.
- O(1) space, can only keep elements within iteration frame

 L Must be able to nanolle deplicate elements, cannot use set

Implementation Ideas

- set(nums) -> traverse from 1...n

Optimization

- Discard anything larger than n, as we only care about the continuous sequence from $1 \dots result$.
 - · L Can be extended to elements < 0.
- In place modification of input array. We take the idea of the hashset, and flag elements as seen using a negative flag (within on index)

out of bounds into obving impl.