Single Element in a Sorted Array

Try to solve the Single Element in a Sorted Array problem.

We'll cover the following Statement Examples Understand the problem Figure it out! Try it yourself

Statement

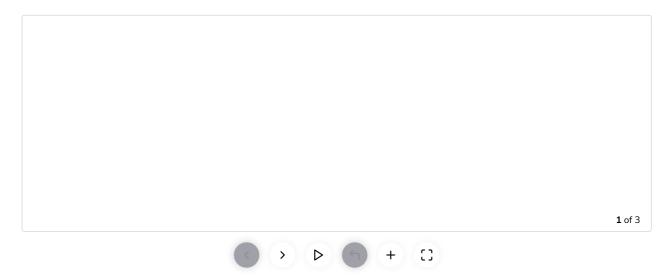
You are given a sorted array of integers, nums, where all integers appear twice except for one. Your task is to find and return the single integer that appears only once.

The solution should have a time complexity of $O(\log n)$ or better and a space complexity of O(1).

Constraints:

- $1 \leq \text{nums.length} \leq 10^3$
- $0 \leq {\sf nums[i]} \leq 10^3$

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps us to check if you're solving the correct problem:



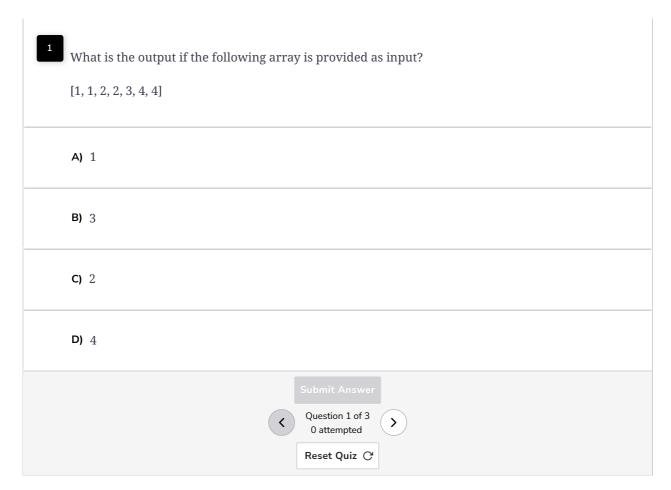
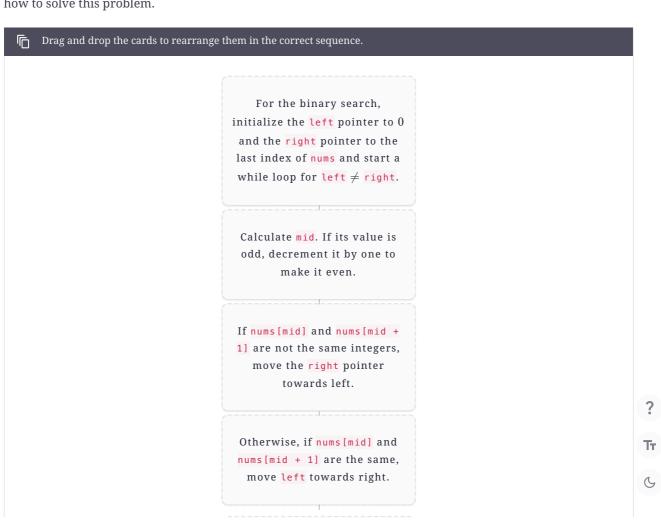


Figure it out!

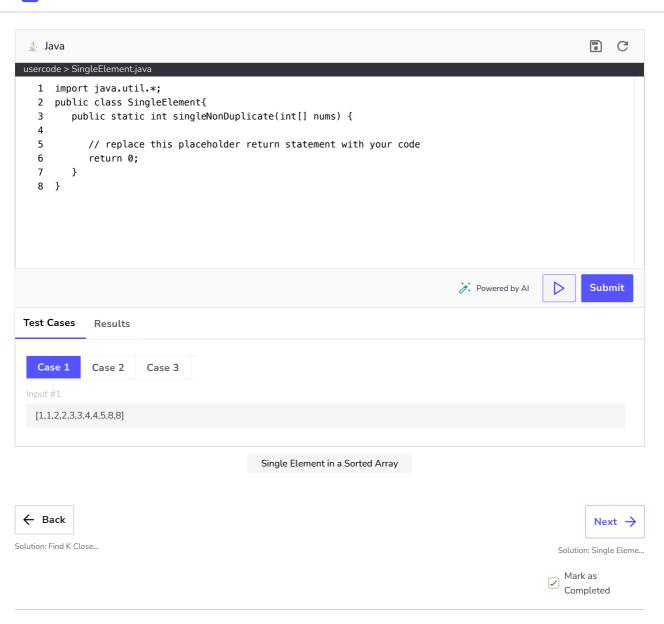
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





Trv it vourself

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