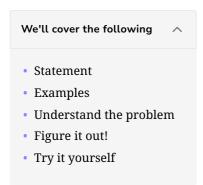
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Missing Number

Try to solve the Missing Number problem.



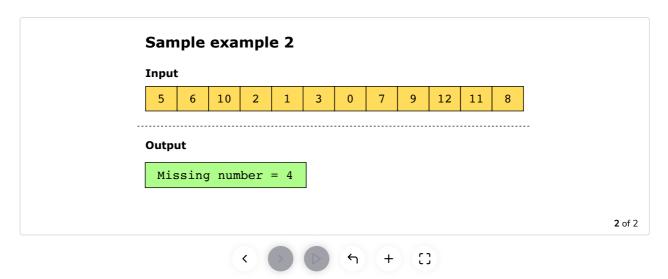
Statement

Given an array, nums, containing n distinct numbers in the range [0, n], return the only number in the range that is missing from the array.

Constraints:

- $n = \mathsf{nums.length}$
- $1 \le n \le 10^3$
- $0 \leq \operatorname{nums}[i] \leq n$
- There are no duplicates in the array.

Examples



Understand the problem

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

Missing Number

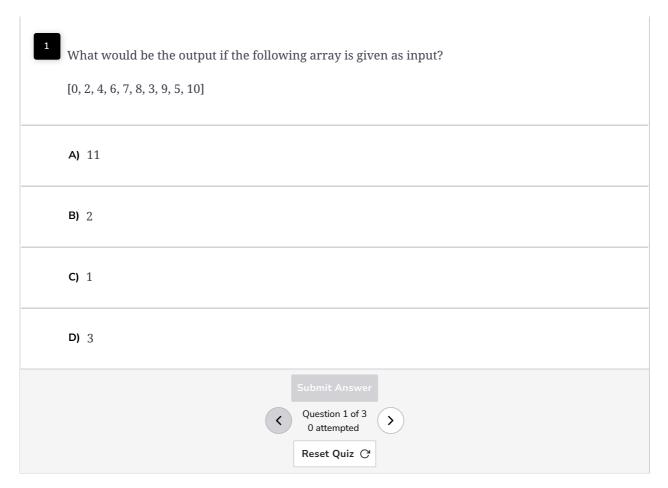
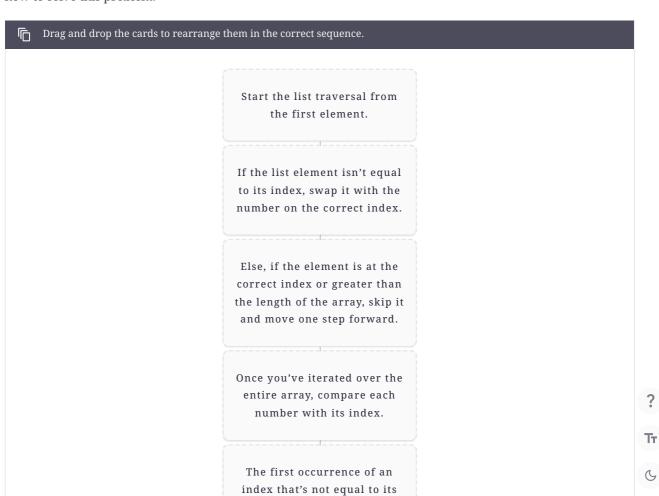
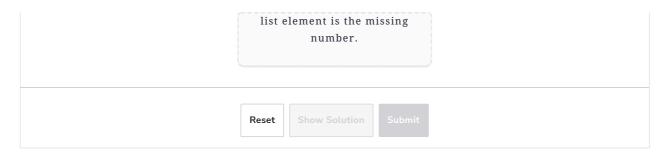


Figure it out!

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

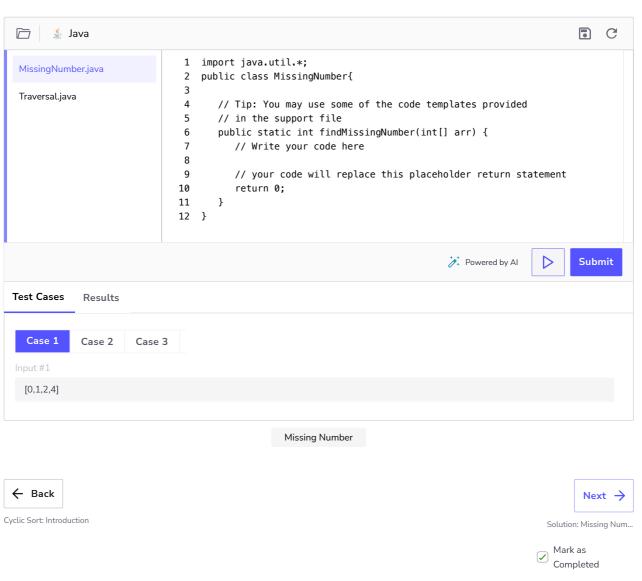




Try it yourself

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useful code template in the other file that you may build on to solve this problem.



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