

Missing Number

Try to solve the Missing Number problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

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:

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

Examples

Sample example 2

Input

5	6	10	2	1	3	0	7	9	12	11	8
---	---	----	---	---	---	---	---	---	----	----	---

Output

Missing number = 4




2 of 2



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



1

What would be the output if the following array is given as input?

[0, 2, 4, 6, 7, 8, 3, 9, 5, 10]

A) 11

B) 2

C) 1

D) 3

Submit Answer



Question 1 of 3
0 attempted



Reset Quiz ↺

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.



Drag and drop the cards to rearrange them in the correct sequence.

Start the list traversal from the first element.

If the list element isn't equal to its index, swap it with the number on the correct index.

Else, if the element is at the correct index or greater than the length of the array, skip it and move one step forward.

Once you've iterated over the entire array, compare each number with its index.

The first occurrence of an index that's not equal to its



list element is the missing number.

Reset

Show Solution

Submit

Try it yourself



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

Java

MissingNumber.java

Traversal.java

```
1 import java.util.*;
2 public class MissingNumber{
3
4     // Tip: You may use some of the code templates provided
5     // in the support file
6     public static int findMissingNumber(int[] arr) {
7         // Write your code here
8
9         // your code will replace this placeholder return statement
10        return 0;
11    }
12 }
```

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Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[0,1,2,4]

Missing Number

← Back

Next →

Cyclic Sort: Introduction

Solution: Missing Num...

☒ Mark as Completed

