Find the First K Missing Positive Numbers

Try to solve the Find the First K Missing Positive Numbers problem.

We'll cover the following

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

Statement

For a given unsorted array, find the first k missing positive numbers in that array.

Constraints:

- Ignore all negative numbers.
- If `missing_nums.length` $\neq k$, add missing numbers up to k.
- $1 \leq k \leq 10^4$
- $1 \leq$ `missing_nums.length` ≤ 200

Examples

Sample example 1

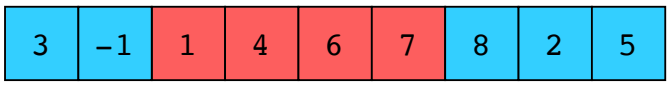
Input

3	-1	8	2	5

Value of k

`k = 4`

Output



The first 4 missing positive numbers are [1, 4, 6, 7].

Understanding 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:

Find the First K Missing Positive Numbers

1

What could be the correct output if the following values are given as input?

array = [1, 2, 3, 0, 4, 9, 7]
k = 4

A) [5, 6, 8, 9]

B) [5, 6, 7, 10]

C) [5, 6, 8, 10]

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.

> **Note:** As an additional challenge, we have intentionally hidden the solution to this puzzle.

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

Continue to check all the elements in this manner until the array is fully sorted.

Sort the given input array by swapping the values into their correct positions.

If the element is at its correct index or greater than the array's length, skip it and move to the next element.

Next, compare each element with its index. Loop through

the array and find all possible values that do not lie in the given array.

Reset Submit

Try it yourself

Implement your solution in the following coding playground.

coded solution.

Java

usercode > MissingNumbers.java

```java
import java.util.*;

public class MissingNumbers{
    public static List<Integer> firstKMissingNumbers(int[] arr, int k) {

        // Your code will replace this placeholder return statement

        return new ArrayList<>();
    }
}
```

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Test Cases Results

Case 1 Case 2 Case 3

Input #1

[1,2,3,4,5]

Input #2

6

Find the First K Missing Positive Numbers

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Solution: Find the Corr...

Next

Topological Sort: Intro...

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