# 41. First Missing Positive

## SOLUTION IN JAVA

class Solution {

public int firstMissingPositive(int[] nums) {

final int n = nums.length;

for (int i = 0; i < n; ++i)

while (nums[i] > 0 && nums[i] <= n && nums[i] != nums[nums[i] - 1])

swap(nums, i, nums[i] - 1);

for (int i = 0; i < n; ++i)

if (nums[i] != i + 1)

return i + 1;

return n + 1;

}

private void swap(int[] nums, int i, int j) {

final int temp = nums[i];

nums[i] = nums[j];

nums[j] = temp;

}

}