First Missing Positive

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Accepted: 46478 Total Submissions: 204320 Difficulty: Hard

Given an unsorted integer array, find the first missing positive integer.

For example,

```
Given [1,2,0] return 3,
and [3,4,-1,1] return 2.
```

Your algorithm should run in O(n) time and uses constant space.

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Python

 \mathcal{Z}

```
class Solution(object):
 1
 2
         def firstMissingPositive(self, nums):
 3
 4
             :type nums: List[int]
             :rtype: int
 5
             .....
 6
 7
             i=0
 8
             while i<len(nums):</pre>
                  if nums[i]>0 and nums[i] <= len(nums):</pre>
 9
                      if nums[nums[i]-1] == nums[i]:
10
11
                          i+=1
12
                          continue
13
                      tmp = nums[nums[i]-1]
                      nums[nums[i]-1] = nums[i]
14
15
                      nums[i] = tmp
                      i-=1
16
17
                 i+=1
18
             for i in range(len(nums)):
19
                  if nums[i] != i+1:
20
                      return i+1
21
             return len(nums)+1
```

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