

First Positive

Question: 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.

Solutions:

class Solution:

@param A, a list of integers

@return an integer

@a very subtle solution

def firstMissingPositive(A):

n=len(A)

for i in range(n):

if A[i]<=0: A[i]=n+2

for i in range(n):

if abs(A[i])<=n:

curr=abs(A[i])-1

A[curr]=-abs(A[curr])

for i in range(n):

if A[i]>0: return i+1

return n+1

Solution.firstMissingPositive([3,4,-1,1])