Find Mex

6681 68% 10 ★★★★★9 votes , Algorithms, Brute Force, Implementation, Linear Search, Iterators Share

Output Format:

Print N integers. i^{th} element should be the MEX of the array prefix till i

Constraints:

$1 \leq N \leq 2 * 10^5$
$0 \leq arr[i] \leq 2 * 10^5$

Sample Input	Sample Output
5 1 0 5 5 3	0 2 2 2 2

Time Limit: 1
Memory Limit: 256
Source Limit:

Explanation

For first test case mex of first index is 0. As it is note present in array

mex of second index is 2 as 0 and 1 is present in array.

mex of 3rd, 4th and 5th index is 2.

Contributers:

Deepu Kumar

Geetartha Kaustav

Enter your code or Upload your code as file. Save Python 3 (python 3.10)

```python
def solve():
    n = int(input())
    arr = list(map(int, input().split()))
    v = [0] * 1000000
    ans = 0

    for a in arr:
        v[a] = 1
        while v[ans] == 1:
            ans += 1
        print(ans, end=" ")
    print()

if __name__ == "__main__":
    solve()
```

14:27 vscode

Test against custom input Compile & Test code Submit code

Submission ID: 104431033

RESULT: Accepted Refer judge environment

Score	Time (sec)	Memory (KiB)	Language
0	1.22188	26224	Python 3