Problem | Editorial | Submissions

Find H-Index

Difficulty: **Medium** Accuracy: **53.4%** Submissions: **30K+** Points: **4**

Given an integer array **citations[],** where **citations[i]** is the number of citations a researcher received for the **i**th paper. The task is to find the **H-index**.

> **H-Index** is the **largest** value such that the researcher has **at least H papers** that have been cited **at least H times**.

Examples:

Input: citations[] = [3, 0, 5, 3, 0]
Output: 3
Explanation: There are at least 3 papers (3, 5, 3) with at least 3 citations.

Input: citations[] = [5, 1, 2, 4, 1]
Output: 2
Explanation: There are 3 papers (with citation counts of 5, 2, and 4) that have 2 or more citations. However, the H-Index cannot be 3 because there aren't 3 papers with 3 or more citations.

Java (1.8) | Start Timer

```java
// } Driver Code Ends

class Solution {
    static int hIndex(int[] citations) {
        int n = citations.length;
        int[] freq = new int[n + 1];
        for (int i = 0; i < n; i++) {
            if (citations[i] >= n)
                freq[n] += 1;
            else
                freq[citations[i]] += 1;
        }
        int idx = n;
        int s = freq[n];
        while (s < idx) {
            idx--;
            s += freq[idx];
        }
        return idx;
    }
}
```

Custom Input | Compile & Run | Submit