

274. H-Index

Description

Hints

Submissions

Discuss

Solution

Pick One

Given an array of citations (each citation is a non-negative integer) of a researcher, write a function to compute the researcher's h-index.

According to the [definition of h-index on Wikipedia](#): "A scientist has index h if h of his/her N papers have **at least** h citations each, and the other $N - h$ papers have **no more than** h citations each."

Example:

Input: citations = [3,0,6,1,5]

Output: 3

Explanation: [3,0,6,1,5] means the researcher has 5 papers in total and each of them had received 3, 0, 6, 1, 5 citations respectively.
Since the researcher has 3 papers with **at least** 3 citations each and the remaining two with **no more than** 3 citations each, her h-index is 3.

Note: If there are several possible values for h , the maximum one is taken as the h-index.

Seen this question in a real interview before?



```
/*
 * 先排序，然后count是表示大于等于citations[i]的个数
 * 因为要找最大的，当count >= citations[i]意思表示就
 * 满足了条件，就是一个学者的H-index意思是有H篇论文的引用量
 * 都在H以上，H越大越好，比如说3 0 6 1 5 排序后
 * 0 1 3 5 6 一开始count=0, citations[i] = 6, 显然6不满足
 * 一直到count = 3, citations[i] = 1, 满足了，所以取最大值，3，因为假如
 * citations[i] = 1也是满足的
 */
public class L274 {
    public int hIndex(int[] citations) {
        int size = citations.length;
        if(size <= 0)
            return 0;
        Arrays.sort(citations);
        int count = 0;

        for(int i = size - 1; i >= 0; i --) {
            if(count >= citations[i]) {
                return Math.max(count, citations[i]);
            }
            count ++;
        }
        return count;
    }
}
```