

274. H-Index

Hint

Given an array of integers citations where citations[i] is the number of citations a researcher received for their ith paper, return the researcher's h-index.

According to the definition of h-index on Wikipedia: The h-index is defined as the maximum value of h such that the given researcher has published at least h papers that have each been cited at least h times.

Example 1:

- **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, their h-index is 3.

Example 2:

- **Input:** citations = [1,3,1]
- **Output:** 1

Constraints:

- $n == \text{citations.length}$
- $1 \leq n \leq 5000$
- $0 \leq \text{citations}[i] \leq 1000$