2558. Take Gifts From the Richest Pile

Solved ●

Easy Topics Companies Hint

You are given an integer array `gifts` denoting the number of gifts in various piles. Every second, you do the following:

- Choose the pile with the maximum number of gifts.
- If there is more than one pile with the maximum number of gifts, choose any.
- Leave behind the floor of the square root of the number of gifts in the pile. Take the rest of the gifts.

Return *the number of gifts remaining after* `k` *seconds.*

Example 1:

> **Input:** gifts = [25,64,9,4,100], k = 4
> **Output:** 29
> **Explanation:**
> The gifts are taken in the following way:
> - In the first second, the last pile is chosen and 10 gifts are left behind.
> - Then the second pile is chosen and 8 gifts are left behind.
> - After that the first pile is chosen and 5 gifts are left behind.
> - Finally, the last pile is chosen again and 3 gifts are left behind.
> The final remaining gifts are [5,8,9,4,3], so the total number of gifts remaining is 29.

Example 2:

> **Input:** gifts = [1,1,1,1], k = 4
> **Output:** 4
> **Explanation:**
> In this case, regardless which pile you choose, you have to leave behind 1 gift in each pile.
> That is, you can't take any pile with you.
> So, the total gifts remaining are 4.

Constraints:

- `1 <= gifts.length <= 10^3`
- `1 <= gifts[i] <= 10^9`
- `1 <= k <= 10^3`

Seen this question in a real interview before? 1/5

Yes No

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Hint 1

Hint 2

Hint 3

Hint 4

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