

## 5839. Remove Stones to Minimize the Total

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You are given a **0-indexed** integer array `piles`, where `piles[i]` represents the number of stones in the  $i^{\text{th}}$  pile, and an integer `k`. You should apply the following operation **exactly** `k` times:

- Choose any `piles[i]` and **remove**  $\text{floor}(\text{piles}[i] / 2)$  stones from it.

**Notice** that you can apply the operation on the **same** pile more than once.

Return the **minimum** possible total number of stones remaining after applying the `k` operations.

$\text{floor}(x)$  is the **greatest** integer that is **smaller** than or **equal** to `x` (i.e., rounds `x` down).

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

## Example 1:

**Input:** `piles = [5,4,9], k = 2`

**Output:** 12

**Explanation:** Steps of a possible scenario are:

- Apply the operation on pile 2. The resulting piles are `[5,4,5]`.
  - Apply the operation on pile 0. The resulting piles are `[3,4,5]`.
- The total number of stones in `[3,4,5]` is 12.

## Example 2:

**Input:** `piles = [4,3,6,7], k = 3`

**Output:** 12

**Explanation:** Steps of a possible scenario are:

- Apply the operation on pile 3. The resulting piles are `[4,3,3,7]`.
  - Apply the operation on pile 4. The resulting piles are `[4,3,3,4]`.
  - Apply the operation on pile 0. The resulting piles are `[2,3,3,4]`.
- The total number of stones in `[2,3,3,4]` is 12.

## Constraints:

- $1 \leq \text{piles.length} \leq 10^5$
- $1 \leq \text{piles}[i] \leq 10^4$
- $1 \leq k \leq 10^5$

JavaScript



```

1 /**
2  * @param {number[]} piles
3  * @param {number} k
4  * @return {number}
5  */
6 var minStoneSum = function(piles, k) {
7
8 };

```

☐ Custom Testcase☒ Use Example Testcases

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