

# 2530. Maximal Score After Applying K Operations

## Description

You are given a **0-indexed** integer array `nums` and an integer `k`. You have a **starting score** of `0`.

In one **operation** :

1. choose an index `i` such that `0 <= i < nums.length`,
2. increase your **score** by `nums[i]`, and
3. replace `nums[i]` with `ceil(nums[i] / 3)`.

Return *the maximum possible **score** you can attain after applying **exactly** `k` operations*.

The ceiling function `ceil(val)` is the least integer greater than or equal to `val`.

### Example 1:

**Input:** `nums = [10,10,10,10,10]`, `k = 5`

**Output:** `50`

**Explanation:** Apply the operation to each array element exactly once. The final score is `10 + 10 + 10 + 10 + 10 = 50`.

### Example 2:

**Input:** `nums = [1,10,3,3,3]`, `k = 3`

**Output:** `17`

**Explanation:** You can do the following operations:

Operation 1: Select `i = 1`, so `nums` becomes `[1, 4, 3, 3, 3]`. Your score increases by `10`.

Operation 2: Select `i = 1`, so `nums` becomes `[1, 2, 3, 3, 3]`. Your score increases by `4`.

Operation 3: Select `i = 2`, so `nums` becomes `[1, 1, 1, 3, 3]`. Your score increases by `3`.

The final score is `10 + 4 + 3 = 17`.

### Constraints:

- `1 <= nums.length, k <= 105`
- `1 <= nums[i] <= 109`

