## 2656. Maximum Sum With Exactly K Elements

Solved

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You are given a **0-indexed** integer array nums and an integer k. Your task is to perform the following operation **exactly** k times in order to maximize your score:

- 1. Select an element m from nums.
- 2. Remove the selected element m from the array.
- 3. Add a new element with a value of m + 1 to the array.
- 4. Increase your score by m.

Return the maximum score you can achieve after performing the operation exactly k times.

## Example 1:

**Input:** nums = [1,2,3,4,5], k = 3

Output: 18

**Explanation:** We need to choose exactly 3 elements from nums to maximize the sum.

For the first iteration, we choose 5. Then sum is 5 and nums = [1,2,3,4,6]

For the second iteration, we choose 6. Then sum is 5 + 6 and nums = [1,2,3,4,7]

For the third iteration, we choose 7. Then sum is 5 + 6 + 7 = 18 and nums = [1,2,3,4,8]

So, we will return 18.

It can be proven, that 18 is the maximum answer that we can achieve.

## Example 2:

**Input:** nums = [5,5,5], k = 2

Output: 11

**Explanation:** We need to choose exactly 2 elements from nums to maximize the sum.

For the first iteration, we choose 5. Then sum is 5 and nums = [5,5,6]

For the second iteration, we choose 6. Then sum is 5 + 6 = 11 and nums = [5,5,7]

So, we will return 11.

It can be proven, that 11 is the maximum answer that we can achieve.

## **Constraints:**

- 1 <= nums.length <= 100</li>
- 1 <= nums[i] <= 100
- 1 <= k <= 100

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

Yes No

Accepted 77K Submissions 93.4K Acceptance Rate 82.4%

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Discussion (13)

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