

## 2611. Mice and Cheese

Hint 

Medium



456

22



Companies

There are two mice and  $n$  different types of cheese, each type of cheese should be eaten by exactly one mouse.

A point of the cheese with index  $i$  (**0-indexed**) is:

- `reward1[i]` if the first mouse eats it.
- `reward2[i]` if the second mouse eats it.

You are given a positive integer array `reward1`, a positive integer array `reward2`, and a non-negative integer  $k$ .

Return **the maximum** points the mice can achieve if the first mouse eats exactly  $k$  types of cheese.

**Example 1:**

**Input:** `reward1 = [1,1,3,4]`, `reward2 = [4,4,1,1]`,  $k = 2$

**Output:** 15

**Explanation:** In this example, the first mouse eats the 2<sup>nd</sup> (0-indexed) and the 3<sup>rd</sup> types of cheese, and the second mouse eats the 0<sup>th</sup> and the 1<sup>st</sup> types of cheese.

The total points are  $4 + 4 + 3 + 4 = 15$ .

It can be proven that 15 is the maximum total points that the mice can achieve.

**Example 2:**

**Input:** `reward1 = [1,1]`, `reward2 = [1,1]`,  $k = 2$

**Output:** 2

**Explanation:** In this example, the first mouse eats the 0<sup>th</sup> (0-indexed) and 1<sup>st</sup> types of cheese, and the second mouse does not eat any cheese.

The total points are  $1 + 1 = 2$ .

It can be proven that 2 is the maximum total points that the mice can achieve.

**Constraints:**

- $1 \leq n == \text{reward1.length} == \text{reward2.length} \leq 10^5$
- $1 \leq \text{reward1}[i], \text{reward2}[i] \leq 1000$
- $0 \leq k \leq n$

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Yes   No

Discussion (15)

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