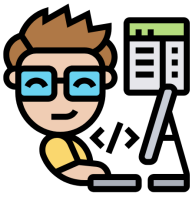

DAILY PROGRAMMING

CHALLENGE

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First Element to Repeat k Times

You are given an array of integers and an integer k. Your task is to find the first element in the array that appears exactly k times. If no such element exists, return -1.

Input:

- An integer array arr of size n, where $1 \leq n \leq 10^5$
- An integer k, where $1 \leq k \leq n$

Output:

- Return the first element from the array that occurs exactly k times. If no element occurs exactly k times, return -1.

Examples:

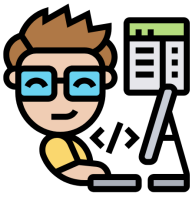
- Example 1
  Input: arr = [3, 1, 4, 4, 5, 2, 6, 1, 4], k = 2
  Output: 1
  Explanation:
  - Element 1 appears twice in the array (at index 1 and index 7), making it the first element that appears exactly 2 times.

Constraints:

- The array contains integers, and the elements may be positive, negative, or zero.

Test Cases:

1. Input: arr = [2, 3, 4, 2, 2, 5, 5], k = 2
   Output: 5
2. Input: arr = [1, 1, 1, 1], k = 1
   Output: -1
3. Input: arr = [10], k = 1
   Output: 10
4. Input: arr = [6, 6, 6, 6, 7, 7, 8, 8, 8], k = 3
   Output: 8



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Edge Cases:

1. Single Element Array: The array has only one element. In this case, k should be 1 to return the element itself.
2. No Element Appears k Times: If no element in the array appears exactly k times, return -1.
3. All Elements Appear More or Less than k Times: If all elements appear either less or more than k times, return -1.