Given a **sorted** integer array arr, two integers k and x, return the k closest integers to x in the array. The result should also be sorted in ascending order.

An integer a is closer to x than an integer b if:

* |a - x| < |b - x|, or
* |a - x| == |b - x| and a < b

**Example 1:**

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

**Output:** [1,2,3,4]

**Example 2:**

**Input:** arr = [1,2,3,4,5], k = 4, x = -1

**Output:** [1,2,3,4]

**Constraints:**

* 1 <= k <= arr.length
* 1 <= arr.length <= 104
* arr is sorted in **ascending** order.
* -104 <= arr[i], x <= 104