658. Find K Closest Elements

Description

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 <= 10 ⁴
- arr is sorted in ascending order.
- -10 ⁴ <= arr[i], x <= 10 ⁴