658. Find K Closest Elements

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

#Method: 2

```
def findClosestElements(self, arr: List[int], k: int, x: int) -> List[int]:
    new = deque(arr)
    while len(new) > k:
        new.pop() if abs(new[0]-x) <= abs(new[-1]-x) else new.popleft()
    return new</pre>
```