```
class Solution {
  public List<Integer> findClosestElements(int∏ arr, int k, int x) {
     Queue<Integer> q = new PriorityQueue<>((a, b) -> {
        int tmp = Math.abs(a - x) - Math.abs(b - x);
        return (tmp != 0) ? tmp : a - b;
        });
     for (int i : arr) {
        q.offer(i);
     List<Integer> res = new ArrayList<>();
     while (!q.isEmpty() && res.size() != k) {
        res.add(q.poll());
     Collections.sort(res);
     return res:
  }
*/
  public List<Integer> findClosestElements(int[] arr, int k, int x) {
     List<Integer> answer = new ArrayList<>();
     int left = \overline{0}, right = arr.length-1, mid = 0;
     while(left <= right){
        mid = left + (right-left)/2;
        if(arr[mid] == x) break;
        else if(arr[mid] < x) left = mid+1;
        else right = mid-1;
     left = mid;
     right = mid+1;
     while(right - left <= k){
        if(left < 0) {
           //answer.add(arr[right++]);
           right++;
        } else if(right > arr.length-1){
                                // Don't insert to front of list, it is very slow
           //answer.add(0, arr[left--]);
           left--;
        } else{
           if(Math.abs(x-arr[left]) <= Math.abs(x-arr[right])){
             //answer.add(0, arr[left--]);
             left--;
          } else{
             //answer.add(arr[right++]);
             right++;
          }
        }
     while(++left < right) answer.add(arr[left]);
     return answer;
  }
```