Qn Link : <https://www.geeksforgeeks.org/problems/find-all-four-sum-numbers1732/1?itm_source=geeksforgeeks&itm_medium=article&itm_campaign=practice_card>

class Solution {

public ArrayList<ArrayList<Integer>> fourSum(int[] arr, int k) {

Arrays.sort(arr);

Set<ArrayList<Integer>> res = new LinkedHashSet<>();

for (int i = 0;i<arr.length-3;i++){

for (int j = i+1;j<arr.length-2;j++){

int l = j+1;

int r = arr.length-1;

int curSum = arr[i]+arr[j] ;

while (l<r){

int sum = curSum + arr[l] + arr[r];

if (sum==k){

ArrayList <Integer> al = new ArrayList<>();

al.add(arr[i]);

al.add(arr[j]);

al.add(arr[l]);

al.add(arr[r]);

res.add(al);

r--;

}

else if (sum>k)

r--;

else

l++;

}

}

}

return new ArrayList<>(res);

}

}